Claudin 1 Polyclonal Antibody

Catalog Number 71-7800

Details

<table>
<thead>
<tr>
<th>Size</th>
<th>100 µg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host/Isotope</td>
<td>Rabbit / IgG</td>
</tr>
<tr>
<td>Class</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Type</td>
<td>Antibody</td>
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<tr>
<td>Immunogen</td>
<td>A synthetic peptide derived from the C-terminus of the human/mouse Claudin-1 protein.</td>
</tr>
<tr>
<td>Conjugate</td>
<td>Unconjugated</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Concentration</td>
<td>0.25 mg/ml</td>
</tr>
<tr>
<td>Purification</td>
<td>Antigen affinity chromatography</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>PBS, pH 7.4</td>
</tr>
<tr>
<td>Contains</td>
<td>0.1% sodium azide</td>
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<tr>
<td>Storage Conditions</td>
<td>-20°C</td>
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</table>

Species Reactivity

| Tested species reactivity | Dog, Human, Mouse, Rat |
| Published species reactivity | Dog, Tag, Avian, Rabbit, Rat, Virus, Bovine, Fish, Human, Mouse, Not Applicable |

Tested Applications

<table>
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<tr>
<th>Immunochemistry (ICC)</th>
<th>Western Blot (WB)</th>
<th>Mitochondrion (MB)</th>
<th>Immunofluorescence (IF)</th>
<th>Immunohistochemistry (IHC)</th>
<th>Immunohistochemistry (Paraffin) (IHC (P))</th>
<th>Western Blot (WB)</th>
<th>Immunoprecipitation (IP)</th>
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<tr>
<td>Assay Dependent</td>
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<td>1:10-1:100</td>
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Published Applications

- Immunocytochemistry (ICC): See 13 publications below
- Western Blot (WB): See 24 publications below
- Mitochondrion (MB): See 6 publications below
- Immunohistochemistry (IHC): See 6 publications below
- Immunofluorescence (IF): See 12 publications below
- Immunohistochemistry (Paraffin) (IHC (P)): See 1 publication below
- Immunohistochemistry (Frozen) (IHC (F)): See 2 publications below
- Immunoprecipitation (IP): See 3 publications below

Background/Target Information

Claudin-1 is a member of the transmembrane protein family claudins located in cell-cell tight junctions and it acts as a co-receptor for HCV entry into hepatic cells. Claudins are abundant in luminal epithelial sheets where they maintain epithelial cell polarity. Claudin-1 is expressed in most tissues such as bladder, fallopian tube, liver, pancreas, prostate, and skin.


Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.
Claudin 1 Antibody (71-7800) in IF
Immunofluorescent staining of rat small intestine using Rb anti-Claudin-1 (Product # 71-7800).

Claudin 1 Antibody (71-7800) in IHC (P)
Immunohistochemistry analysis of Claudin-1 showing staining in the membrane and weak cytoplasm staining of paraffin-embedded human liver tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Claudin-1 Rabbit Polyclonal Antibody (Product # 71-7800) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

Claudin 1 Antibody (71-7800) in WB
Western blot analysis using Rabbit anti-Claudin-1 Polyclonal Antibody in: Lane 1: Rat liver. Lane 2: Rat kidney. Lane 3: MDCK cells. Lane 4: Caco-2 cells. Lane 5: Mouse hepatocytes (Product # 71-7800).
13 Immunocytochemistry References

**Species / Dilution**

**Summary**

Rabbit / 1:100

71-7800 was used in immunocytochemistry and western blot to investigate the role of TRPV4 in a corneal epithelial cell model.

Journal of cellular physiology (Jul 2017; 232: 1794)

"TRPV4 Regulates Tight Junctions and Affects Differentiation in a Cell Culture Model of the Corneal Epithelium."


PubMed Article URL: http://dx.doi.org/10.1002/jcp.25698

Not Applicable / Not Cited

71-7800 was used in immunocytochemistry to study a reconstituted choroid plexus epithelium to show T-lymphocytes traffic into the brain across the blood-CSF barrier.

PloS one (Mar 2016; 11: null)

"T-Lymphocytes Traffic into the Brain across the Blood-CSF Barrier: Evidence Using a Reconstituted Choroid Plexus Epithelium."

Author(s): Strenziello N, Creidy R, Malcus B, Bourjault J, Ghersi-Egaa JF

PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0150945

Not Applicable / 1:100

71-7800 was used in immunocytochemistry, immunohistochemistry - paraffin section, and western blot to study follicular thyroid carcinoma aggressiveness caused by the impact of CLAUDIN-1

Endocrine-related cancer (Oct 2015; 22: 819)

"The impact of CLAUDIN-1 on follicular thyroid carcinoma aggressiveness."

Author(s): Zwanziger D, Badzio J, Ting S, Moeller LC, Schmid KW, Siebolt U, Wickenhauser C, Dralle H, Fuehrer D

PubMed Article URL: http://dx.doi.org/10.1530/ERC-14-0502

Not Applicable

71-7800 was used in immunocytochemistry and western blot to show that mitochondrial respiratory defects contribute to hepatoma invasiveness.

Human / Not Cited

The Journal of biological chemistry (Aug 2015; 290: 21421)

"Mitochondrial Respiratory Dysfunction Induces Claudin-1 Expression via Reactive Oxygen Species-mediated Heat Shock Factor 1 Activation, Leading to Hepatoma Cell Invasiveness."

Author(s): Lee JH, Lee YK, Lim JJ, Byun HO, Park I, Kim GH, Xu W, Wang HJ, Yoon G

PubMed Article URL: http://dx.doi.org/10.1074/jbc.M115.654913

71-7800 was used in immunocytochemistry to show that choroid plexus epithelial cells expand in response to injury and growth factors.

Mouse / 1:1000

71-7800 was used in immunocytochemistry to study using RPMI 2650 cells to create in vitro model of the nasal mucosa.

Clinical nutrition (Edinburgh, Scotland) (Dec 2014; 33: 1046)

"Alteration of intestinal barrier function during activity-based anorexia in mice."


PubMed Article URL: http://dx.doi.org/10.1007/s11095-014-1494-0

Human / Not Cited

71-7800 was used in immunocytochemistry to study the effect of activity-based anorexia on intestinal barrier function in mice.

Mouse / 1:50

71-7800 was used in immunocytochemistry and western blot to determine the effects of KBrO(3) using human and rat proximal tubular cell lines.

Clinical nutrition (Edinburgh, Scotland) (Dec 2014; 33: 1046)

"Alteration of intestinal barrier function during activity-based anorexia in mice."


PubMed Article URL: http://dx.doi.org/10.1007/s11095-014-1494-0

Human / 1:300

71-7800 was used in immunocytochemistry and western blot to investigate the role of TRPV4 in a corneal epithelial cell model.

Archives of toxicology (Nov 2012; 86: 1741)

"Oxidative stress induced by potassium bromate exposure results in altered tight junction protein expression in renal proximal tubule cells."


PubMed Article URL: http://dx.doi.org/10.1007/s00204-012-0897-0


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Thermo Fisher Scientific
3747 N. Meridian Road
Rockford, IL 61015 USA

thermofisher.com/contactus
71-7800 was used in immunocytochemistry to report that capsid contributes to astrovirus infection-induced diarrhea.

Not Applicable / 1:50
Journal of virology (Nov 2007; 81: 11937)
"Astrovirus increases epithelial barrier permeability independently of viral replication."
Author(s):Moser LA,Carter M,Shultz-Cherry S
PubMed Article URL:http://dx.doi.org/10.1128/JVI.00942-07

Mouse / Not Cited
71-7800 was used in immunocytochemistry and western blot to study how the permeability barrier is regulated during pregnancy and parturition.

Endocrinology (Mar 2007; 148: 1278)
"Dynamic changes in the cervical epithelial tight junction complex and differentiation occur during cervical ripening and parturition."
Author(s):Timmons BC,Mitchell SM,Gilpin C,Mahendroo MS
PubMed Article URL:http://dx.doi.org/10.1210/en.2006-0851

71-7800 was used in immunocytochemistry to investigate the role of myosin in vectorial transport.

Not Applicable / 1:100
Journal of muscle research and cell motility (Dec 2002; 23: 223)
"2,3-butanedione monoxime (BDM), a potent inhibitor of actin-myosin interaction, induces ion and fluid transport in MDCK monolayers."
Author(s):Castillo AM,Reyes JL,Sánchez E,Mondragón R,Meza I
PubMed Article URL:http://dx.doi.org/null

71-7800 was used in immunocytochemistry to assess the effect of adding an extract of dog urine to monolayers of MDCK cells.

Dog / Not Cited
The Journal of membrane biology (Jul 2002; 188: 33)
"Tight junctions are sensitive to peptides eliminated in the urine."
Author(s):Gallardo JM,Hernández JM,Contreras RG,Flores-Maldonado C,González-Mariscal L,Cereijido M
PubMed Article URL:http://dx.doi.org/10.1007/s00232-001-0170-6

24 Western Blot References

Species / Dilution
Summary
71-7800 was used in western blot to test if HAI-2, matriptase, EpCAM, and claudin-7 are functionally linked in the intestine

Human / Not Cited
The Journal of clinical investigation (Feb 2017; 127: 623)
"Matriptase-mediated cleavage of EpCAM destabilizes claudins and dysregulates intestinal epithelial homeostasis."
Author(s):Wu CJ,Feng X,Lu M,Morimura S,Udey MC
PubMed Article URL:http://dx.doi.org/10.1172/JCI88428

71-7800 was used in western blot to elucidate regulation of E-cadherin and CD24 by determination of cell fate transition and impeding tumor initiation and progression in breast cancer via HOXA5

Not Applicable / Not Cited
Oncogene (Oct 2016; 35: 5539)
"HOXA5 determines cell fate transition and impedes tumor initiation and progression in breast cancer through regulation of E-cadherin and CD24."
PubMed Article URL:http://dx.doi.org/10.1038/onc.2016.95

71-7800 was used in western blot to study anorectic mice for improved body composition and intestinal hyperpermeability and behavior due to maintaining of physical activity during refeeding.

Not Applicable / 1:1000
Scientific reports (Feb 2016; 6: null)
"Maintaining physical activity during refeeding improves body composition, intestinal hyperpermeability and behavior in anorectic mice."
Author(s):Achamrah N,Nobis S,Breton J,Jésus P,Belmonte L,Maurer B,Legrand R,Bôle-Feysot C,do Rego JL,Goichon A,
Rego JC,Déchelotte P,Fetissov SO,Claeyssens S,Coëffier M
PubMed Article URL:http://dx.doi.org/10.1038/srep21887
71-7800 was used in western blot to study the effect of cotransin treatment on protein synthesis

Human / 1:2000

"Defining a conformational consensus motif in cotransin-sensitive signal sequences: a proteomic and site-directed mutagenesis study."
PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0120886

71-7800 was used in western blot to evaluate claudin 2 as a proximal tubular stress responsive paracellular water channel

Human / 1:500

Toxicology and applied pharmacology (Sep 2014; 279: 163)
"Evidence for a role of claudin 2 as a proximal tubular stress responsive paracellular water channel."
Author(s):Wilmes A,Aschauer L,Limonciel A,Pfaller W,Jennings P
PubMed Article URL:http://dx.doi.org/10.1016/j.taap.2014.05.013

71-7800 was used in western blot to investigate the effects of antioxidants on Nf loss or HRas hyper activation in mouse oligodendrocytes.

Mouse / 1:200

Cell reports (Sep 2013; 4: 1197)
"Nf1 loss and Ras hyperactivation in oligodendrocytes induce NOS-driven defects in myelin and vasculature."
Author(s):Mayes DA,Rizvi TA,Titus-Mitchell H,Oberst R,Cirilo GM,Vorhees CV,Robinson AP,Miller SD,Canciolas JA, Stemmer-Rachamimov AO,Ratner N
PubMed Article URL:http://dx.doi.org/10.1016/j.cellrep.2013.08.011

71-7800 was used in western blot to test if GLP-2 regulates tight junctions.

Human / Not Cited

Journal of cell science (Nov 2012; 125: 5005)
"Cingulin is dispensable for epithelial barrier function and tight junction structure, and plays a role in the control of claudin-2 expression and response to duodenal mucosa injury."
Author(s):Guillermot L,Schneider Y,Brun P,Castagiuolo I,Pizzuti D,Marlines D,Jond L,Bongiovanni M,Citi S
PubMed Article URL:http://dx.doi.org/10.1242/jcs.101261

71-7800 was used in western blot to examine the function and location of tight junction proteins in immune cells.

Human / 1:200

Journal of cellular and molecular medicine (Apr 2012; 16: 765)
"Tight junction proteins expression and modulation in immune cells and multiple sclerosis."
Author(s):Mandel I,Paperna T,Glass-Marmor L,Volkovitch A,Badaryn S,Schwartz I,Vardi P,Koren I,Miller A
PubMed Article URL:http://dx.doi.org/10.1111/j.1582-4934.2011.01380.x

71-7800 was used in western blot to examine the function and location of tight junction proteins in immune cells.

Mouse / Not Cited

Journal of investigative dermatology (Apr 2011; 131: 932)
"CD44 regulates tight-junction assembly and barrier function."
Author(s):Kirschner N,Haftek M,Niessen CM,Behne MJ,Furuse M,Moll I,Brandner JM
PubMed Article URL:http://dx.doi.org/10.1038/jid.2010.390

71-7800 was used in western blot to test if GLP-2 regulates tight junctions.

Avian / Not Cited

Theriogenology (Feb 2011; 75: 445)
"Expression of claudin-1 and -11 in immature and mature pheasant (Phasianus colchicus) testes."
Author(s):Park CJ,Lee JE,Oh YS,Shim S,Nah WH,Choi KJ,Gye MC
PubMed Article URL:http://dx.doi.org/10.1016/j.theriogenology.2010.09.012

71-7800 was used in western blot to investigate the effects of antioxidants on Nf loss or HRas hyper activation in mouse oligodendrocytes.

Not Applicable / Not Cited

"Increased intraocular insulin-like growth factor-I triggers blood-retinal barrier breakdown."
Author(s):Haurigot V,Villacampa P,Ribera A,Llombart C,Bosch A,Nacher V,Ramos D,Ayuso E,Segovia JC,Bueren JA,Ruberte J,Bosch F
PubMed Article URL:http://dx.doi.org/10.1074/jbc.M109.014787


71-7800 was used in western blot to study the effect of cotransin treatment on protein synthesis

PloS one (Mar 2015; 10: null)
"Defining a conformational consensus motif in cotransin-sensitive signal sequences: a proteomic and site-directed mutagenesis study."
PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0120886

71-7800 was used in western blot to evaluate claudin 2 as a proximal tubular stress responsive paracellular water channel

Toxicology and applied pharmacology (Sep 2014; 279: 163)
"Evidence for a role of claudin 2 as a proximal tubular stress responsive paracellular water channel."
Author(s):Wilmes A,Aschauer L,Limonciel A,Pfaller W,Jennings P
PubMed Article URL:http://dx.doi.org/10.1016/j.taap.2014.05.013

71-7800 was used in western blot to investigate the effects of antioxidants on Nf loss or HRas hyper activation in mouse oligodendrocytes.

Cell reports (Sep 2013; 4: 1197)
"Nf1 loss and Ras hyperactivation in oligodendrocytes induce NOS-driven defects in myelin and vasculature."
Author(s):Mayes DA,Rizvi TA,Titus-Mitchell H,Oberst R,Cirilo GM,Vorhees CV,Robinson AP,Miller SD,Canciolas JA, Stemmer-Rachamimov AO,Ratner N
PubMed Article URL:http://dx.doi.org/10.1016/j.cellrep.2013.08.011

71-7800 was used in western blot to test if GLP-2 regulates tight junctions.

Journal of cell science (Nov 2012; 125: 5005)
"Cingulin is dispensable for epithelial barrier function and tight junction structure, and plays a role in the control of claudin-2 expression and response to duodenal mucosa injury."
Author(s):Guillermot L,Schneider Y,Brun P,Castagiuolo I,Pizzuti D,Marlines D,Jond L,Bongiovanni M,Citi S
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PubMed Article URL:http://dx.doi.org/10.1111/j.1582-4934.2011.01380.x

Journal of investigative dermatology (Apr 2011; 131: 932)
"CD44 regulates tight-junction assembly and barrier function."
Author(s):Kirschner N,Haftek M,Niessen CM,Behne MJ,Furuse M,Moll I,Brandner JM
PubMed Article URL:http://dx.doi.org/10.1038/jid.2010.390

Theriogenology (Feb 2011; 75: 445)
"Expression of claudin-1 and -11 in immature and mature pheasant (Phasianus colchicus) testes."
Author(s):Park CJ,Lee JE,Oh YS,Shim S,Nah WH,Choi KJ,Gye MC
PubMed Article URL:http://dx.doi.org/10.1016/j.theriogenology.2010.09.012

"Increased intraocular insulin-like growth factor-I triggers blood-retinal barrier breakdown."
Author(s):Haurigot V,Villacampa P,Ribera A,Llombart C,Bosch A,Nacher V,Ramos D,Ayuso E,Segovia JC,Bueren JA,Ruberte J,Bosch F
PubMed Article URL:http://dx.doi.org/10.1074/jbc.M109.014787
Investigative ophthalmology and visual science (Jul 2005; 46: 2487)  
"Leukocyte diapedesis in vivo induces transient loss of tight junction protein at the blood-retina barrier."  
Author(s): Xu H, Dawson R, Crane IJ, Liveridge J  
PubMed Article URL: http://dx.doi.org/10.1177/0748672804271333

Not Applicable / Not Cited  
Experimental cell research (Aug 2004; 298: 1)  
"Connexin 26-mediated gap junctional intercellular communication suppresses paracellular permeability of human intestinal epithelial cell monolayers."  
Author(s): Morita H, Katsuno T, Hoshimoto A, Hirano N, Saito Y, Suzuki Y  
PubMed Article URL: http://dx.doi.org/10.1016/j.yexcr.2004.03.046

Human / Not Cited  
"Proinflammatory cytokines disrupt epithelial barrier function by apoptosis-independent mechanisms."  
Author(s): Bruewer M, Liegering A, Kuchterzik T, Parkos CA, Madara JL, Hopkins AM, Nusrat A  
PubMed Article URL: http://dx.doi.org/10.1074/jnl.200401-003-0688-z

Human / Not Cited  
Acta neuropathologica (Jun 2003; 105: 586)  
"Localization of claudin-3 in tight junctions of the blood-brain barrier is selectively lost during experimental autoimmune encephalomyelitis and human glioblastoma multiforme."  
PubMed Article URL: http://dx.doi.org/10.1077/a00401-006-0688-z

Mouse / 1:3000  
Journal of virology (Mar 2003; 77: 2807)  
"Simian virus 40 small tumor antigen induces deregulation of the actin cytoskeleton and tight junctions in kidney epithelial cells."  
Author(s): Nunnbakhdi-Craig V, Craig L, Machleidt T, Sontag E  
PubMed Article URL: http://dx.doi.org/10.1128/JVI.77.5.2807-2814.2003

Bovine / 1:2000  
Journal of cell science (Feb 2003; 116: 693)  
"Section against hypoxia-induced increase in blood-brain barrier permeability: role of tight junction proteins and NFKappaB."  
Author(s): Brown RC, Mark KS, Egleton RD, Huber JD, Burroughs AR, Davis TP  
PubMed Article URL: http://dx.doi.org/10.1242/jcs.1610

Human / Not Cited  
Journal of virology (Mar 2003; 77: 2807)  
"Simian virus 40 small tumor antigen induces deregulation of the actin cytoskeleton and tight junctions in kidney epithelial cells."  
Author(s): Nunnbakhdi-Craig V, Craig L, Machleidt T, Sontag E  
PubMed Article URL: http://dx.doi.org/10.1128/JVI.77.5.2807-2814.2003

Human / Not Cited  
The Journal of cell biology (Sep 2002; 158: 967)  
"Protein phosphatase 2A associates with and regulates atypical PKC and the epithelial tight junction complex."  
Author(s): Nunnbakhdi-Craig V, Machleidt T, Ogris E, Bellotto D, White CL, Sontag E  
PubMed Article URL: http://dx.doi.org/10.1083/jcb.20026114

Human / Not Cited  
The Journal of cell science (Sep 2000; 275: 29816)  
"The coiled-coil domain of occludin can act to organize structural and functional elements of the epithelial tight junction."  
Author(s): Nusrat A, Chen JA, Foley CS, Liang TW, Tom J, Cromwell M, Quan C, Mrsny RJ  
PubMed Article URL: http://dx.doi.org/10.1242/jcb.20002450200

Human / Not Cited  
The Journal of clinical investigation (May 2001; 107: 1319)  
"Regulated expression of claudin-4 decreases paracellular conductance through a selective decrease in sodium permeability."  
Author(s): Van Itallie C, Rahner C, Anderson JM  
PubMed Article URL: http://dx.doi.org/10.1172/JCI12464

Human / Not Cited  
The Journal of biological chemistry (Sep 2000; 275: 29816)  
"The coiled-coil domain of occludin can act to organize structural and functional elements of the epithelial tight junction."  
Author(s): Nusrat A, Chen JA, Foley CS, Liang TW, Tom J, Cromwell M, Quan C, Mrsny RJ  
PubMed Article URL: http://dx.doi.org/10.1242/jcb.20002450200

Human / Not Cited  
The Journal of cell biology (Sep 2002; 158: 967)  
"Protein phosphatase 2A associates with and regulates atypical PKC and the epithelial tight junction complex."  
Author(s): Nunnbakhdi-Craig V, Machleidt T, Ogris E, Bellotto D, White CL, Sontag E  
PubMed Article URL: http://dx.doi.org/10.1083/jcb.20026114

Dog / Not Cited  
Molecular biology of the cell (Mar 2000; 11: 849)  
"Regulation of tight junction structure and barrier function by down-regulation of the mitogen-activated protein kinase pathway in ras-transformed Madin-Darby canine kidney cells."  
Author(s): Chen YH, Lu Q, Schneeberger EE, Goodenough DA  
PubMed Article URL: http://dx.doi.org/10.1074/jbc.M002450200

6 Miscellaneous PubMed References

Species / Dilution  
Summary


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Thermo Fisher Scientific
3747 N. Meridian Road
Rockford, IL 61015 USA
71-7800 was used in immunocytochemistry to study the molecular mechanisms underlying the reversible effects of capsaicin on tight junction permeability.


Dog / Not Cited

71-7800 was used in immunohistochemistry (frozen) to investigate the expression of the tight junction proteins occludin, claudin-1 and ZO-2 in the epidermis of female mice.

Mouse / 1:100

Experimental cell research (Oct 2013; 319: 2588)

"Papillomavirus E6 oncoprotein up-regulates occludin and ZO-2 expression in ovariectomized mice epidermis."

Author(s): Hernández-Monge J, Garay E, Raya-Sandino A, Vargas-Sierra O, Díaz-Chávez J, Popoca-Cuaya M, Lambert PF, González-Mariscal L, Garigliò P

PubMed Article URL: http://dx.doi.org/10.1016/j.yexcr.2013.07.028

71-7800 was used in immunocytochemistry and western blot to examine the contribution of various tight junction proteins in keratinocytes.

Human / 1:2000

The Journal of investigative dermatology (May 2013; 133: 1161)

"Contribution of tight junction proteins to ion, macromolecule, and water barrier in keratinocytes."

Author(s): Kirschner N, Rosenthal R, Furse M, Mull I, Fromm M, Brandner JM

PubMed Article URL: http://dx.doi.org/10.1038/jid.2012.507

Mouse / Not Cited

Journal of cell science (Nov 2012; 125: 5005)

"Cingulin is dispensable for epithelial barrier function and tight junction structure, and plays a role in the control of claudin-2 expression and response to duodenal mucosa injury."

Author(s): Guillomet L, Schneider Y, Brunn P, Castagliuolo I, Pizziuti D, Martin D, Jond L, Bongiovanni M, Citi S

PubMed Article URL: http://dx.doi.org/10.1242/jcs.101261

71-7800 was used in immunoprecipitation to investigate the effects of Src tyrosine kinase activation in temperature-sensitive Src-transformed Madin-Darby canine kidney cells.

Dog / Not Cited

71-7800 was used in immunohistochemistry (frozen) and western blot to examine the differential expression of occludin and several claudins in isolated renal tubules from newborn and adult rabbits.

Rabbit / 5 µg/ml

Kidney international (Aug 2002; 62: 476)

"The renal segmental distribution of claudins changes with development."


PubMed Article URL: http://dx.doi.org/10.1046/j.1523-1755.2002.00479.x

6 Immunohistochemistry References

Species / Dilution

Summary

Mouse / 1:250

The journal of venomous animals and toxin including tropical diseases (Nov 2013; 19: null)

"A bradykinin-potentiating peptide (BPP-10c) from Bothrops jararaca induces changes in seminiferous tubules."

Author(s): Gilio JM, Portaro FC, Borella MI, Lameu C, Camargo AC, Alberto-Silva C


Mouse / Not Cited

Journal of cell science (Nov 2012; 125: 5005)

"Cingulin is dispensable for epithelial barrier function and tight junction structure, and plays a role in the control of claudin-2 expression and response to duodenal mucosa injury."

Author(s): Guillomet L, Schneider Y, Brunn P, Castagliuolo I, Pizziuti D, Martin D, Jond L, Bongiovanni M, Citi S

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71-7800 was used in immunohistochemistry and western blot to examine the expression of the tight junction proteins occludin, claudin-1 and ZO-2 in the epidermis of female mice.

Avian / Not Cited

Theriogenology (Feb 2011; 75: 445)

"Expression of claudin-1 and -11 in immature and mature pheasant (Phasianus colchicus) testes."

Author(s): Park CJ, Lee JE, Oh YS, Shim S, Nah WH, Choi KJ, Gye MC

PubMed Article URL: http://dx.doi.org/10.1016/j.theriogenology.2010.09.012


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12 Immunofluorescence References

<table>
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Human / Not Cited

**“Protein phosphatase 2A associates with and regulates atypical PKC and the epithelial tight junction complex.”**

Author(s): Numbhakdi-Craig V, Machleidt T, Ogris E, Bellotto D, White CL, Sontag E

PubMed Article URL: http://dx.doi.org/10.1083/jcb.2002061114

Tag / Not Cited


**“Neutrophil transepithelial migration: evidence for sequential, contact-dependent signaling events and enhanced paracellular permeability independent of transjunctional migration.”**

Author(s): Edens HA, Levi BP, Jaye DL, Walsh S, Reaves TA, Turner JR, Nusrat A, Parkos CA

PubMed Article URL: http://dx.doi.org/null

Dog / Not Cited

**The Journal of biological chemistry (Feb 2002; 277: 5583)**

**“JEEP, a novel component of tight junctions in exocrine cells.”**

Author(s): Nishimura M, Kakizaki M, Ono Y, Morimoto K, Takeuchi M, Inoue Y, Imai T, Takai Y

PubMed Article URL: http://dx.doi.org/10.1074/jbc.M101542000

Dog / Not Cited

**Molecular biology of the cell (Mar 2000; 11: 849)**

**“Restoration of tight junction structure and barrier function by down-regulation of the mitogen-activated protein kinase pathway in ras-transformed Madin-Darby canine kidney cells.”**

Author(s): Chen YH, Lu Q, Schneeberger EE, Goodenough DA

PubMed Article URL: http://dx.doi.org/null

### 1 Immunohistochemistry (Paraffin) References

#### Species / Dilution

**Summary**

71-7800 was used in immunohistochemistry - paraffin section to analyze the localizations of Cldn1, Cldn6, Cldn11, and Cldn18, and the presence of Cldn3 and Cldn5 in various neonatal mouse epithelia

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<th>Species / Dilution</th>
<th>Summary</th>
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<tbody>
<tr>
<td>Not Applicable / 6:100</td>
<td>Cell and tissue research (Nov 2007; 330: 381) <strong>“Claudin immunolocalization in neonatal mouse epithelial tissues.”</strong> Author(s): Troy TG, Arabzadeh A, Yerlikaya S, Turkse K PubMed Article URL: <a href="http://dx.doi.org/10.1007/s00441-007-0487-2">http://dx.doi.org/10.1007/s00441-007-0487-2</a></td>
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### 2 Immunohistochemistry (Frozen) References

#### Species / Dilution

**Summary**

71-7800 was used in immunohistochemistry - frozen section to examine the expression and function of tight junctions in the epithelium of human palatine tonsils from patients with tonsillar hypertrophy or recurrent tonsillitis

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<tr>
<td>Not Applicable / 1:100</td>
<td>Experimental cell research (Oct 2004; 299: 415) <strong>“Simultaneous cell death and desquamation of the embryonic diffusion barrier during epidermal development.”</strong> Author(s): Saathoff M, Blum B, Quast T, Kifel G, Herzog V PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.yexcr.2004.06.009">http://dx.doi.org/10.1016/j.yexcr.2004.06.009</a></td>
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### 3 Immunoprecipitation References

#### Species / Dilution

**Summary**

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<td>Bowine / Not Cited</td>
<td>Journal of cell science (Feb 2003; 116: 693) <strong>“Protection against hypoxia-induced increase in blood-brain barrier permeability: role of tight junction proteins and NFkappaB.”</strong> Author(s): Brown RC, Mark KS, Egleton RD, Huber JD, Burroughs AR, Davis TP PubMed Article URL: <a href="http://dx.doi.org/null">http://dx.doi.org/null</a></td>
</tr>
</tbody>
</table>

| Rat / Not Cited | The journal of cell biology (Sep 2002; 158: 967) **“Protein phosphatase 2A associates with and regulates atypical PKC and the epithelial tight junction complex.”** Author(s): Numbhakdi-Craig V, Machleidt T, Ogris E, Bellotto D, White CL, Sontag E PubMed Article URL: http://dx.doi.org/10.1083/jcb.2002061114 |

| Human / Not Cited | Molecular biology of the cell (Mar 2000; 11: 849) **“Restoration of tight junction structure and barrier function by down-regulation of the mitogen-activated protein kinase pathway in ras-transformed Madin-Darby canine kidney cells.”** Author(s): Chen YH, Lu Q, Schneeberger EE, Goodenough DA PubMed Article URL: http://dx.doi.org/null |


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