

ZO-1 Polyclonal Antibody

| Product Details | |
|--------------------|--|
| Size | 100 µg |
| Species | Dog, Guinea pig, Human, Mouse, Rat |
| Published Species | Tag, Baboon, Rat, Pig, Non-human primate, Virus, Insect, Bovine, Sheep, Zebrafish, Cat, Plant, Human, Mouse, Chicken, Xenopus, Horse, Rhesus monkey, Guinea pig, Dog, Artificial Control, Rabbit, C. elegans, Fruit fly |
| Expression System | Rabbit / IgG |
| Class | Polyclonal |
| Type | Antibody |
| Conjugate | Unconjugated |
| Immunogen | A 69 kD fusion protein(1) corresponding to amino acids 463-1109 of human ZO-1 cDNA.(2) This sequence lies N-terminal to the 80 amino acid region (the alpha-motif) present in the a+-isoform but absent in the a- isoform due to alternative splicing. |
| Form | Liquid |
| Concentration | 0.25 mg/mL |
| Purification | Antigen affinity chromatography |
| Storage buffer | PBS, pH 7.4 |
| Contains | 0.1% sodium azide |
| Storage Conditions | -20°C |
| RRID | AB_2533938 |

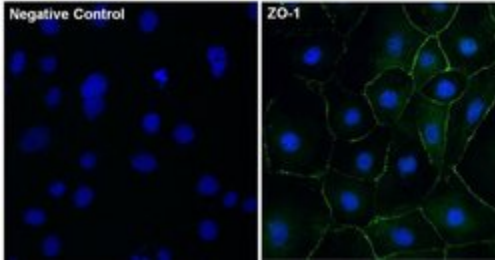
| Applications | Tested Dilution | Publications |
|---|-----------------|------------------|
| ELISA (ELISA) | Assay Dependent | 2 Publications |
| Immunocytochemistry (ICC) | 5-10 µg/mL | 137 Publications |
| Immunofluorescence (IF) | 5-10 µg/mL | 42 Publications |
| Immunohistochemistry (IHC) | 2-5 µg/mL | 106 Publications |
| Immunoprecipitation (IP) | Assay Dependent | 12 Publications |
| Western Blot (WB) | 0.5-2 µg/mL | 141 Publications |
| ChIP assay (ChIP) | - | 1 Publication |
| Immunohistochemistry (Frozen) (IHC (F)) | - | 19 Publications |
| Immunohistochemistry (Paraffin) (IHC (P)) | - | 40 Publications |
| Immunohistochemistry - Free Floating (IHC (Free)) | - | 2 Publications |
| Miscellaneous PubMed (Misc) | - | 53 Publications |

Product Specific Information

61-7300 has been successfully used in Western blot, Immunoprecipitation, Immunofluorescence, ELISA and Immunohistochemistry.

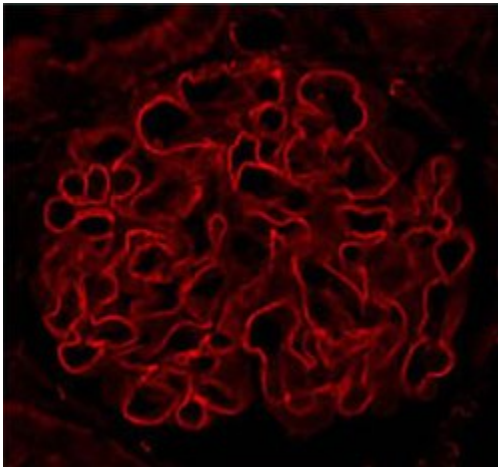
To achieve appropriate staining results on formalin-fixed, paraffin embedded tissue sections, protease Type XIV (Actinase E) pretreatment is required. The recommended dilution and incubation for protease is 1-2 mg/mL at 37°C for 10 minutes. Other enzyme and Heat Induced Epitope Retrieval pre-treatment methods may not be suitable for this particular antibody. Frozen sections have been successfully stained after fixation with acetone at 4°C.

Product Images For ZO-1 Polyclonal Antibody



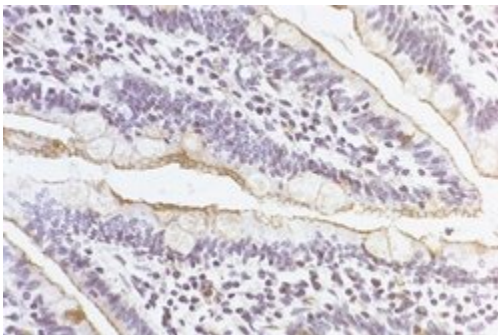
ZO-1 Antibody (61-7300) in IF

Immunofluorescent analysis of ZO-1 (green) in Caco-2 cells. The cells were fixed with 4% paraformaldehyde for 15 minutes and blocked with 3% Blocker BSA (Product # 37525) in PBS for 15 minutes at room temperature. Cells were stained with or without ZO-1 rabbit polyclonal antibody (Product # 61-7300), at a concentration of 5 µg/mL for 1 hour at room temperature, and then incubated with a Goat anti-Rabbit IgG (H+L) Superclonal Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:1000 for 1 hour at room temperature (both panels, green). Nuclei (both panels, blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ToxInsight at 20X magnification.



ZO-1 Antibody (61-7300) in IF

Indirect immunofluorescence staining of rat glomerulus using Zymed (R) Rb anti-ZO-1 (Product # 61-7300) (red). Image courtesy of Hidetake Kurihara, PhD, Juntendo University School of Medicine, Tokyo, Japan.



ZO-1 Antibody (61-7300) in IHC

Immunohistochemical analysis of ZO-1 in small intestine using a polyclonal antibody (Product # 61-7300).

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Western Blot (141)

Frontiers in neuroscience

Protective Effects of L-902,688, a Prostanoid EP4 Receptor Agonist, against Acute Blood-Brain Barrier Damage in Experimental Ischemic Stroke.

"61-7300 was used in Western Blotting to show for the first time that pharmacological activation of EP4 with L-902,688 is neuroprotective in ischemic stroke by reducing MMP-3/-9 and BBB damage."

Authors: DeMars KM,McCrea AO,Siwarski DM,Sanz BD,Yang C,Candelario-Jalil E

Species
Rat

Dilution
1:500

Year
2020

Frontiers in microbiology

Afadin Downregulation by *Helicobacter pylori* Induces Epithelial to Mesenchymal Transition in Gastric Cells.

"61-7300 was used in Western Blotting to show that Afadin is downregulated by H. pylori infection in vitro and in vivo and its downregulation leads to the emergence of epithelial-to-mesenchymal transition, which can contribute to gastric carcinogenesis."

Authors: Marques MS,Melo J,Cavadas B,Mendes N,Pereira L,Carneiro F,Figueiredo C,Leite M

Species
Human

Dilution
Not Cited

Year
2020

[View more WB references on thermofisher.com](#)

Immunocytochemistry (137)

Frontiers in physiology

Influence of a Hyperglycemic Microenvironment on a Diabetic Versus Healthy Rat Vascular Endothelium Reveals Distinguishable Mechanistic and Phenotypic Responses.

"61-7300 was used in Immunocytochemistry-immunofluorescence to study the effect of hyperglycaemia on the disruption of molecular mechanisms in endothelial cells under diabetic and non-diabetic states."

Authors: Haspula D,Vallejos AK,Moore TM,Tomar N,Dash RK,Hoffmann BR

Species
Rat

Dilution
Not Cited

Year
2020

Frontiers in aging neuroscience

Bis-Retinoid A2E Induces an Increase of Basic Fibroblast Growth Factor via Inhibition of Extracellular Signal-Regulated Kinases 1/2 Pathway in Retinal Pigment Epithelium Cells and Facilitates Phagocytosis.

"617300 was used in immunocytochemistry to assess the effects of N-retinyl-N-retinylidene ethanolamine on mitogen-activated protein kinase"

Authors: Balmer D,Bapst-Wicht L,Pyakurel A,Emery M,Nanchen N,Bochet CG,Roduit R

Species
Mouse

Dilution
Not Cited

Year
2020

[View more ICC references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (106)

IHC (Free) (2)

IHC (P) (40)

IHC (F) (19)

Misc (53)

ChIP (1)

IF (42)

IP (12)

ELISA (2)

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