

Connexin 29 Polyclonal Antibody

Product Details	
Size	50 µg
Species	Human, Mouse
Published Species	Rat, Mouse, Human
Expression System	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide derived from the C-terminal sequence of mouse Cx29.
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_2533169

Applications	Tested Dilution	Publications
ELISA (ELISA)	Assay Dependent	-
Immunofluorescence (IF)	Assay Dependent	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:50	-
Western Blot (WB)	Assay Dependent	6 Publications
Immunocytochemistry (ICC)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunohistochemistry (IHC)	-	3 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

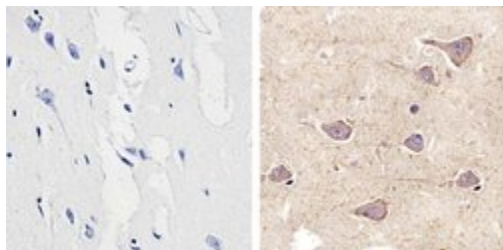
Product Specific Information

34-4200 was used in the IHC analysis to successfully detect Connexin 29 in mouse sciatic nerve.

Product Images For Connexin 29 Polyclonal Antibody

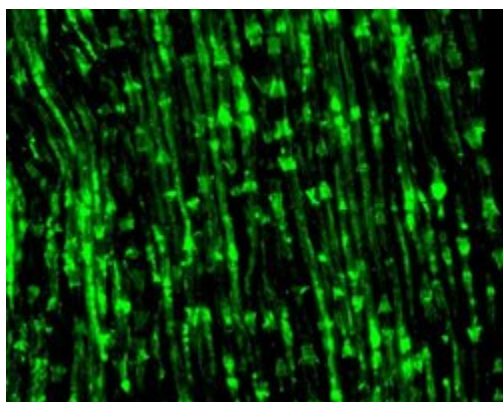
Connexin 29 Antibody (34-4200) in IHC (P)

Immunohistochemistry analysis of Connexin 29 showing staining in the cytoplasm and membrane of paraffin-embedded human brain 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 Connexin 29 polyclonal antibody (Product # 34-4200) 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.



Connexin 29 Antibody (34-4200) in IHC

Immunofluorescence analysis of Connexin29 (Cx29) was performed on sections of adult mouse sciatic nerve. Tissue sections on slides were probed for 24 h at 4°C in a humidified chamber with rabbit polyclonal anti-Cx29 (Product # 34-4200) at an antibody concentration of 3 µg/mL diluted in 50 mM Tris-HCl, pH 7.4, containing 1.5% NaCl, 0.3% Triton X-100 (TBST) and 4% normal goat serum. After overnight incubation, sections were washed extensively for 1 h in TBST, and detection of primary antibody was performed for 1.5 h at room temperature with AlexaFluor-488-conjugated donkey anti-rabbit diluted 1:600 in TBST. Sections were then washed in TBST, then in TBS (without triton) and then coverslipped with anti-fade medium. Images were taken on a Zeiss 710 confocal microscope at x40 objective magnification, and show immunofluorescence labelling of Cx29 localized along myelinated axon in adult mouse sciatic nerve, including nodal and internodal regions, and at Schmidt-Lanterman incisures. Data courtesy of Dr. James Nagy's lab.



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18 References

Western Blot (6)

Neurobiology of disease

Differential expression of astrocytic connexins in a mouse model of prenatal alcohol exposure.

"34-4200 was used in western blot to study differential expression of astrocytic connexins by a prenatal alcohol exposure mouse model"

Authors: Ramani M, Mylvaganam S, Krawczyk M, Wang L, Zoidl C, Brien J, Reynolds JN, Kapur B, Poulter MO, Zoidl G, Carlen PL

Species

Not Applicable

Dilution

1:250

Year

2016

Frontiers in pharmacology

The oligodendroglial precursor cell line Oli-neu represents a cell culture system to examine functional expression of the mouse gap junction gene connexin29 (Cx29).

"Published figure using Connexin 29 polyclonal antibody (Product # 34-4200) in Immunofluorescence"

Authors: Söhl G, Hombach S, Degen J, Odermatt B

Species

Human
Mouse
Not Applicable

Dilution

Not Cited
Not Cited
Not Cited

Year

2013

Immunofluorescence (5)

Frontiers in pharmacology

The oligodendroglial precursor cell line Oli-neu represents a cell culture system to examine functional expression of the mouse gap junction gene connexin29 (Cx29).

"Published figure using Connexin 29 polyclonal antibody (Product # 34-4200) in Immunofluorescence"

Authors: Söhl G,Hombach S,Degen J,Odermatt B

Species

Human
Mouse
Not Applicable

Dilution

Not Cited
Not Cited
Not Cited

Year

2013

Neuroscience

Connexin-47 and connexin-32 in gap junctions of oligodendrocyte somata, myelin sheaths, paranodal loops and Schmidt-Lanterman incisures: implications for ionic homeostasis and potassium siphoning.

Authors: Kamasawa N,Sik A,Morita M,Yasumura T,Davidson KG,Nagy JI,Rash JE

Species

Mouse
Rat

Dilution

Not Cited
Not Cited

Year

2006

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IHC (F) (2)

IHC (3)

Misc (1)

ICC (1)

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