

Connexin 26 Polyclonal Antibody

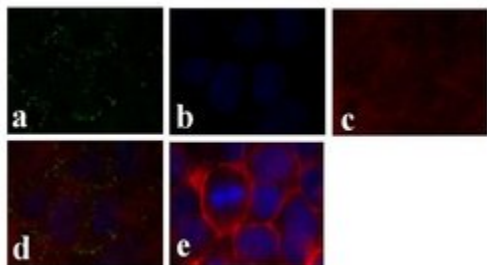
Product Details	
Size	50 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Human, Mouse, Xenopus
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	A 13 amino acid synthetic peptide derived from the C-terminus of the mouse Connexin 26 protein. This mouse sequence differs from the rat sequence by a single amino acid and from the human sequence by two (non-consecutive) amino acids.
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_2533903

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	22 Publications
Immunohistochemistry (IHC)	-	27 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	10-20 µg/mL	4 Publications
Immunocytochemistry (ICC/IF)	1:100-1:500	17 Publications
ELISA (ELISA)	0.1-1.0 µg/mL	-
Immunoprecipitation (IP)	-	2 Publications
Miscellaneous PubMed (Misc)	-	3 Publications

Product Images For Connexin 26 Polyclonal Antibody

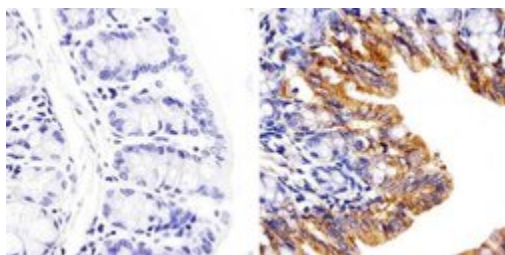
Connexin 26 Antibody (51-2800) in ICC/IF

Immunofluorescence analysis of Connexin 26/GJB2 was done on 70% confluent log phase Caco-2 cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with Connexin 26/GJB2 Rabbit polyclonal Antibody (Product # 51-2800) at 2 µg/mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488 Goat Anti-Rabbit IgG Secondary Antibody (Product # A-11008) at a dilution of 1:400 for 30 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor 594 Phalloidin (Product # A12381). Panel d is a merged image showing junctional localization. Panel e shows no primary antibody control. The images were captured at 20X magnification.



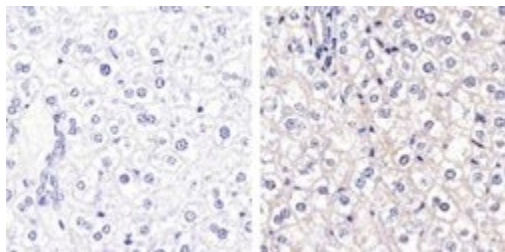
Connexin 26 Antibody (51-2800) in IHC (P)

Immunohistochemistry analysis of Connexin 26/GJB2 showing staining in the cytoplasm of paraffin-embedded mouse colon 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 26/GJB2 polyclonal antibody (Product # 51-2800) 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 26 Antibody (51-2800) in IHC (P)

Immunohistochemistry analysis of Connexin 26 showing staining in the membrane of paraffin-embedded mouse 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 Connexin 26 Polyclonal antibody (Product # 51-2800) 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.



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Western Blot (22)

Biomolecules

Functional Evaluation of a Rare Variant c.516G>C (p.Trp172Cys) in the GJB2 (Connexin 26) Gene Associated with Nonsyndromic Hearing Loss.

"Published figure using Connexin 26 polyclonal antibody (Product # 51-2800) in Immunocytochemistry"

Authors: Maslova EA,Orishchenko KE,Posukh OL

Species
Not Applicable

Dilution
Not Cited

Year
2021

The Journal of biological chemistry

Polydisperse molecular architecture of connexin 26/30 heteromeric hemichannels revealed by atomic force microscopy imaging.

"Published figure using Connexin 26 polyclonal antibody (Product # 51-2800) in Western Blot"

Authors: Naulin PA,Lozano B,Fuentes C,Liu Y,Schmidt C,Contreras JE,Barrera NP

Species
Human
Not Applicable

Dilution
Not Cited
Not Cited

Year
2020

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

Immunohistochemistry (27)

International journal of molecular sciences

Cholestasis Differentially Affects Liver Connexins.

"51-2800 was used in Western Blot, Immunohistochemistry, Immunocytochemistry to investigate how production of tissue homeostasis proteins connexin26, connexin32 and connexin43 in the liver is influenced by cholestatic disease."

Authors: Cooreman A, Van Campenhout R, Crespo Yanguas S, Gijbels E, Leroy K, Pieters A, Tabernilla A, Van Brantegem P, Annaert P, Cogliati B, Vinken M

Species
Human
Mouse

Dilution
Not Cited
Not Cited

Year
2020

Nature communications

Single cell transcriptomics of human epidermis identifies basal stem cell transition states.

"51-2800 was used in Immunohistochemistry to interrogate basal stem cell heterogeneity of human interfollicular epidermis and find four spatially distinct stem cell populations at the top and bottom of rete ridges and transitional positions between the basal and suprabasal epidermal layers."

Authors: Wang S, Drummond ML, Guerrero-Juarez CF, Tarapore E, MacLean AL, Stabell AR, Wu SC, Gutierrez G, That BT, Benavente CA, Nie Q, Atwood SX

Species
Human

Dilution
1:250

Year
2020

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

More applications with references on thermofisher.com

IHC (P) (2)

IHC (F) (4)

ICC/IF (17)

IP (2)

Misc (3)

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