

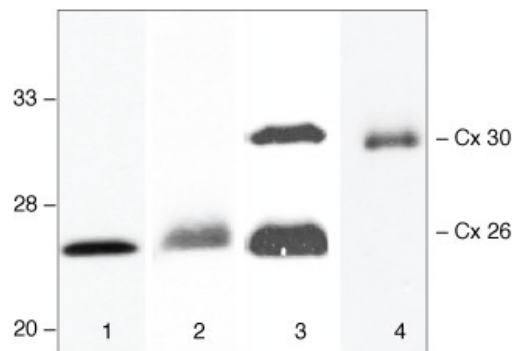
Connexin 26 Polyclonal Antibody

Product Details

Size	50 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human, 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	27 Publications
Immunohistochemistry (IHC)	-	34 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	10-20 µg/mL	5 Publications
Immunocytochemistry (ICC/IF)	1:100-1:500	20 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

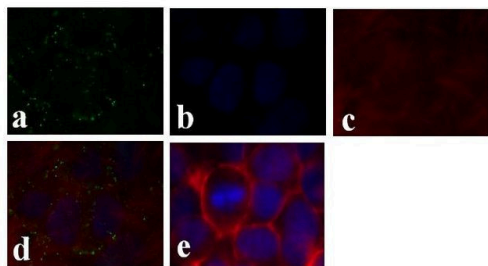


Connexin 26 Antibody (51-2800) in WB

Polyclonal Connexin 26 (Product # 51-2800) does not recognize Cx30. Lane 1: anti-Cx26 (Product # 51-2800) vs. mouse liver. Lane 2: anti-Cx26 (Product # 51-2800) vs. rat leptomeninges (brain). Lane 3: original anti-Cx26 (Product # 71-0500) vs. rat brain. Lane 4: anti-Cx30 (Product # 71-2200) vs. rat leptomeninges.

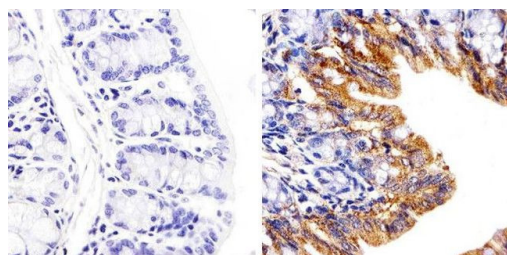
Connexin 26 Antibody (51-2800) in ICC/IF

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.



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Western Blot (27)

Cellular and molecular life sciences : CMLS	Year 2023
The pathogenesis of common Gjb2 mutations associated with human hereditary deafness in mice.	Species Mouse
"51-2800 was used in Western Blotting to provide ideal mouse models for understanding the pathogenic mechanism of DFNB1A-related hereditary deafness and opens up a new avenue for investigating the treatment of this disease."	Dilution 1:1,000
Authors: Li Q,Cui C,Liao R,Yin X,Wang D,Cheng Y,Huang B,Wang L,Yan M,Zhou J,Zhao J,Tang W,Wang Y,Wang X,Lv J,Li J,Li H,Shu Y	
EXCLI journal	Year 2022
Expression of connexins and pannexins in diseased human liver.	Species Human
"51-2800 was used in Western Blotting to characterize the expression and subcellular localization of connexins and pannexins in liver of patients suffering from various chronic and neoplastic liver diseases."	Dilution 1:250
Authors: Leroy K,Vilas-Boas V,Gijbels E,Vanderborcht B,Devisscher L,Cogliati B, Van Den Bossche B,Colle I,Vinken M	

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Immunohistochemistry (34)

EXCLI journal	Year 2022
Expression of connexins and pannexins in diseased human liver.	Species Human
"51-2800 was used in Western Blotting to characterize the expression and subcellular localization of connexins and pannexins in liver of patients suffering from various chronic and neoplastic liver diseases."	Dilution 1:250
Authors: Leroy K,Vilas-Boas V,Gijbels E,Vanderborcht B,Devisscher L,Cogliati B, Van Den Bossche B,Colle I,Vinken M	
Frontiers in oncology	Year 2022
The prognostic value and biological significance of gap junction beta protein 2 (GJB2 or Cx26) in cervical cancer.	Species Human
"51-2800 was used in Immunohistochemistry to explore the prognostic significance of GJB2 and its function in cervical cancer (CC)."	Dilution 1:100
Authors: Meng S,Liu Y,Wang X,Wu X,Xie W,Kang X,Liu X,Guo L,Wang C	

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More applications with references on thermofisher.com

- IHC (P) (2)
- IHC (F) (5)
- ICC/IF (20)
- IP (2)
- Misc (3)

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