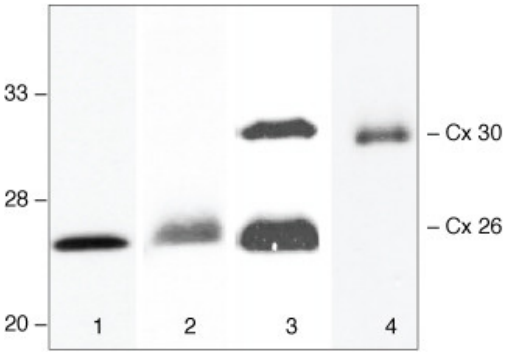
Connexin 26 Polyclonal Antibody

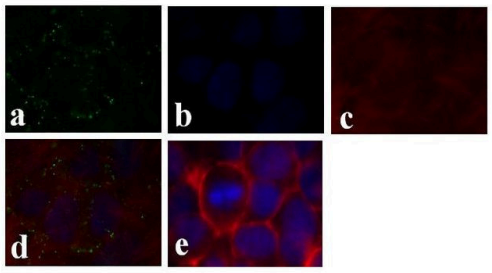
Product Details	
Size	50 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human, Xenopus
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	A 13 amino acid synthetic peptide derived from the C-terminus of the mouse Connexin 26 protein. This 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

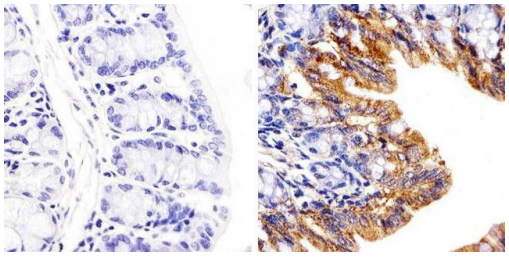
Product Images For Connexin 26 Polyclonal Antibody



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.

View more figures on thermofisher.com

93 References

Western Blot (27)

Cellular and molecular life sciences : CMLS

The pathogenesis of common Gjb2 mutations associated with human hereditary deafness in mice.

"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."

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

Year 2023

Species Mouse

Dilution 1:1,000

EXCLI journal

Expression of connexins and pannexins in diseased human liver.

"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."

Authors: Leroy K,Vilas-Boas V,Gijbels E,Vanderborght B,Devisscher L,Cogliati B,Van Den Bossche B,Colle I,Vinken M

Year 2022

Species Human

Dilution 1:250

View more WB references on thermofisher.com

Immunohistochemistry (34)

EXCLI journal

Expression of connexins and pannexins in diseased human liver.

"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."

Authors: Leroy K,Vilas-Boas V,Gijbels E,Vanderborght B,Devisscher L,Cogliati B,Van Den Bossche B,Colle I,Vinken M

Year 2022

Species Human

Dilution 1:250

Frontiers in oncology

The prognostic value and biological significance of gap junction beta protein 2 (GJB2 or Cx26) in cervical cancer.

"51-2800 was used in Immunohistochemistry to explore the prognostic significance of GJB2 and its function in cervical cancer (CC)."

Authors: Meng S,Liu Y,Wang X,Wu X,Xie W,Kang X,Liu X,Guo L,Wang C

Year 2022

Species Human

Dilution 1:100

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

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