

Connexin 26 Monoclonal Antibody (CX-12H10)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Non-human primate, Bat, Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	CX-12H10
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to a segment of the cytoplasmic loop of rat Connexin-26.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533036

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	18 Publications
Immunohistochemistry (IHC)	1-2 µg/mL	22 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	4 Publications
Immunocytochemistry (ICC/IF)	-	23 Publications
ELISA (ELISA)	0.1-1 µg/mL	-
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	8 Publications

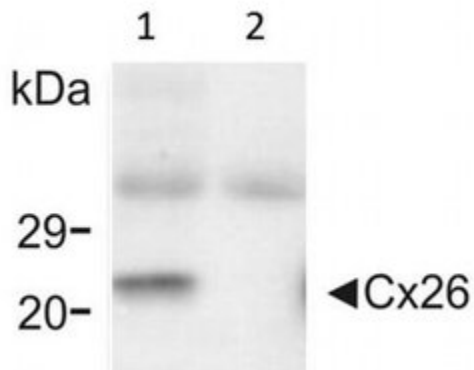
Product Specific Information

13-8100 reacts strongly with Connexin-26, which has a predicted molecular weight of 26.5 kDa. Reactivity of this antibody on western blots has been confirmed by using extracts from mouse liver, mouse brain, and rat brain and it appears to exhibit minimal cross-reaction with Cx30 by western blotting. The degree of cross-reaction with Cx30 by IHC is uncertain, but may be influenced by fixation conditions.

Product Images For Connexin 26 Monoclonal Antibody (CX-12H10)

Connexin 26 Antibody (13-8100) in WB

Western blot analysis of Connexin26 (Cx26) was performed by loading 30 µg of protein from mouse liver homogenate (not boiled) and 7 µL of EZ-RUN Prestained Rec Protein Ladder per well onto a 10% Tris-HCl polyacrylamide gel. Proteins were transferred to a nitrocellulose membrane and blocked in blocking buffer composed of 20 mM Tris-HCl pH 8, 150 mM NaCl and 0.2% Tween-20 (TBST) supplemented with 5% skim milk powder (Carnation) for 1 hr at room temperature. Cx26 was detected at ~26 kDa using an anti-Cx26 antibody (Product # 13-8100, lane 1) at a dilution of 2 µg/mL in TBST supplemented with 1% skim milk powder and incubated overnight at 4° C on a rocking platform, followed by washing and incubation with a goat anti-mouse IgG horse radish peroxidase (HRP) conjugated secondary antibody at a dilution of 1:5,000 in TBST for 1 hr at room temperature. Lane 2: secondary antibody alone (primary omission). The upper band detected represents mouse IgG contamination in the mouse liver sample. Chemiluminescent detection was performed using Pierce ECL Western blotting substrate (Product # 32209). Data courtesy of Dr. James Nagy's lab.



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Western Blot (18)

Frontiers in cell and developmental biology

GJB2 Mutations Linked to Hearing Loss Exhibit Differential Trafficking and Functional Defects as Revealed in Cochlear-Relevant Cells.

"Published figure using Connexin 26 monoclonal antibody (Product # 13-8100) in Western Blot"

Authors: Beach R, Abitbol JM, Allman BL, Esseltine JL, Shao Q, Laird DW

Species
Mouse
Not Applicable

Dilution
1:200
Not Cited

Year
2020

The Journal of investigative dermatology

Allele-Specific Small Interfering RNA Corrects Aberrant Cellular Phenotype in Keratitis-Ichthyosis-Deafness Syndrome Keratinocytes.

"13-8100 was used in Western Blotting to provide an important proof-of-concept and model system for the potential use of allele-specific small interfering RNA in treating KID syndrome and other dominant genetic conditions."

Authors: Lee MY, Wang HZ, White TW, Brooks T, Pittman A, Halai H, Petrova A, Xu D, Hart SL, Kinsler VA, Di WL

Species
Human

Dilution
Not Cited

Year
2020

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

Immunohistochemistry (22)

STAR protocols

Detecting CO₂-Sensitive Hemichannels in Neurons in Acute Brain Slices.

"Published figure using Connexin 26 monoclonal antibody (Product # 13-8100) in Immunohistochemistry"

Authors: Hill E, Dale N, Wall MJ

Species
Mouse
Not Applicable

Dilution
1:200
Not Cited

Year
2020

Epilepsy research

Characterisation of medullary astrocytic populations in respiratory nuclei and alterations in sudden unexpected death in epilepsy.

"Published figure using Connexin 26 monoclonal antibody (Product # 13-8100) in Immunohistochemistry"

Authors: Patodia S, Paradise B, Ellis M, Somani A, Sisodiya SM, Devinsky O, Thom M

Species
Not Applicable

Dilution
Not Cited

Year
2019

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More applications with references on thermofisher.com

IHC (P) (1)

IHC (F) (4)

ICC/IF (23)

IP (1)

Misc (8)

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