

# Connexin 26 Monoclonal Antibody (CX-1E8)

Product Details	
Size	100 µg
Species Reactivity	Mouse, Rat
Published Species	Rat, Mouse, Human, Chicken
Host/Isotype	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	CX-1E8
Conjugate	Unconjugated
Immunogen	A 13 amino acid synthetic peptide derived from the C-terminus of the mouse Connexin 26 protein.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533128

Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	6 Publications
Immunohistochemistry (IHC)	-	8 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	3 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	7 Publications
Immunocytochemistry (ICC/IF)	-	11 Publications
ELISA (ELISA)	Assay-dependent	-
Miscellaneous PubMed (Misc)	-	2 Publications

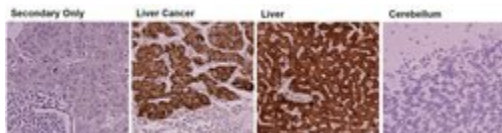
## Product Specific Information

33-5800 was used in the immunofluorescence and western blot analysis to successfully detect Connexin26 in mouse liver sections and homogenate, respectively.

## Advanced Verification Data

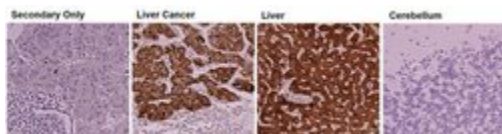
### Connexin 26 Antibody (33-5800)

The specificity of anti-Connexin 26 monoclonal antibody (Product # 33-5800) was demonstrated using naturally occurring variable expression to confirm specificity. Immunohistochemistry analysis of human tissue sections using this antibody showed Connexin 26 is strongly stained in hepatocytes of liver and in tumor cells of liver cancer. No positive staining was found in human cerebellum tissue which does not express Connexin 26. Relative expression validation info.

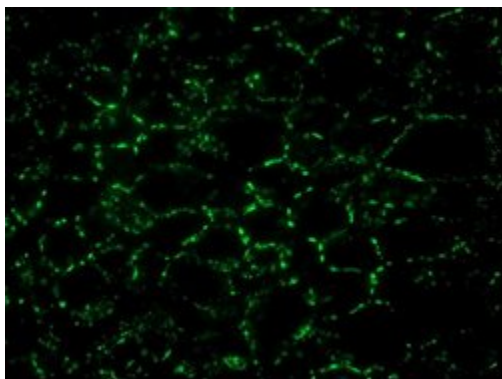


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## Product Images For Connexin 26 Monoclonal Antibody (CX-1E8)

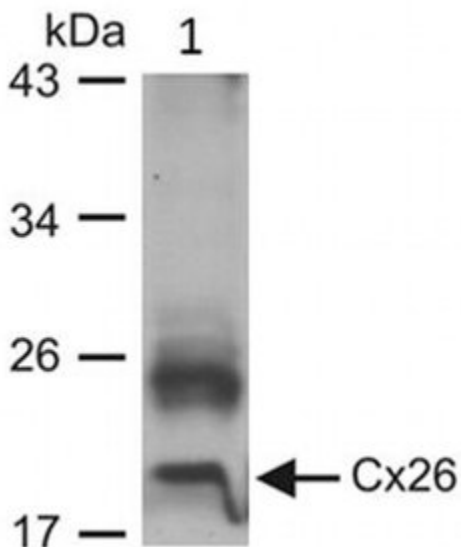


### Connexin 26 Antibody (33-5800) in IHC

Immunofluorescence analysis of connexin 26 was performed on sections of adult mouse liver. Tissue sections on slides were probed for 24 h at 4°C in a humidified chamber with a mouse monoclonal anti-Cx26 (Product # 33-5800), at an antibody concentration of 1-2 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-mouse 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 Z2 scanning microscope at x40 objective magnification, and show immunofluorescence labelling of Cx26 localized at gap junctions between liver hepatocytes. Data courtesy of Dr. James Nagy's lab.

### Connexin 26 Antibody (33-5800) 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 ~21 kDa using a mouse monoclonal anti-Cx26 antibody (Product # 33-5800) 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. Chemiluminescent detection was performed using Pierce ECL Western blotting substrate (Product # 32209). Data courtesy of Dr. James Nagy's lab.



37 References

Western Blot (6)

Developmental biology

**Connexins, E-cadherin, Claudin-7 and -catenin transiently form junctional nexuses during the post-natal mammary gland development.**

"33-5800 was used in western blot to assess the transiently formed junctional nexuses during post-natal mammary gland development by E-cadherins, connexins, beta-catenin, and claudin-7"

Authors: Dianati E,Poiraud J,Weber-Ouellette A,Plante I

**Species**  
Not Applicable

**Dilution**  
1:500

**Year**  
2016

PloS one

**p63 attenuates epithelial to mesenchymal potential in an experimental prostate cell model.**

"33-5800 was used in western blot to study the role of p63 in epithelial homeostasis and development"

Authors: Olsen JR,Oyan AM,Rostad K,Hellem MR,Liu J,Li L,Micklem DR,Haugen H,Lorens JB,Rotter V,Ke XS,Lin B,Kalland KH

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2014

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

Immunohistochemistry (8)

International journal of molecular sciences

**Knockout of Pannexin-1 Induces Hearing Loss.**

"33-5800 was used in Immunohistochemistry-immunofluorescence to demonstrate that the Genentech Pannexin-1 knockout mouse has hearing loss and further confirm that Panx1 deficiency can cause deafness."

Authors: Chen J,Liang C,Zong L,Zhu Y,Zhao HB

**Species**  
Mouse

**Dilution**  
1:400

**Year**  
2018

Neurobiology of disease

**A deafness mechanism of digenic Cx26 (GJB2) and Cx30 (GJB6) mutations: Reduction of endocochlear potential by impairment of heterogeneous gap junctional function in the cochlear lateral wall.**

"33-5800 was used in Immunohistochemistry-immunofluorescence to investigate the underlying pathological changes and mechanism of deafness resulting from digenic Connexin26 and Connexin30 heterozygous mutations."

Authors: Mei L,Chen J,Zong L,Zhu Y,Liang C,Jones RO,Zhao HB

**Species**  
Mouse

**Dilution**  
1:600

**Year**  
2017

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

More applications with references on [thermofisher.com](https://thermofisher.com)

- IHC (P) (3)
- IHC (F) (7)
- ICC/IF (11)
- Misc (2)

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