10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CLDN2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CLDN2.
Catalog # AT1551a

Specification

CLDN2 Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	P57739
Other Accession	NM_020384
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**24549**

CLDN2 Antibody (monoclonal) (M01) - Additional Information

Gene ID 9075

Other Names
Claudin-2, SP82, CLDN2

Target/Specificity
CLDN2 (NP_065117, 29 a.a. ~ 80 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
CLDN2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

CLDN2 Antibody (monoclonal) (M01) - Protocols

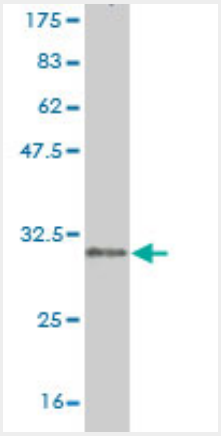
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

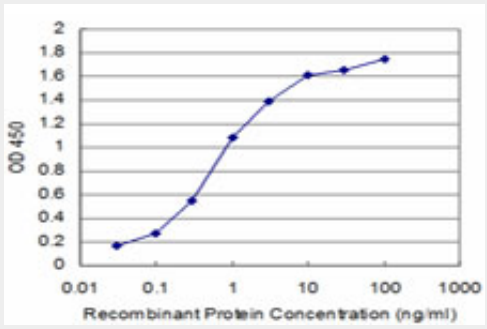
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CLDN2 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (31.46 KDa) .



Detection limit for recombinant GST tagged CLDN2 is approximately 0.03ng/ml as a capture antibody.

CLDN2 Antibody (monoclonal) (M01) - Background

This gene product belongs to the claudin protein family whose members have been identified as major integral membrane proteins localized exclusively at tight junctions. Claudins are expressed in an organ-specific manner and regulate tissue-specific physiologic properties of tight junctions. This protein is expressed in the intestine. Alternatively spliced transcript variants with different 5' untranslated region have been found for this gene.

CLDN2 Antibody (monoclonal) (M01) - References

1.A novel microfluidics-based method for probing weak protein-protein interactions.Tan DC, Wijay IP, Ochsner M, Vasina EN, Nallani M, Hunziker W, Kathrin-Sinner E.Lab Chip, 2012 DOI: 10.1039/C2LC40228A2.Proteopolymersomes: In vitro production of a membrane protein in polymersome membranes.Nallani M, Andreasson-Ochsner M, Darren Tan CW, Sinner EK, Wisantoso Y, Geifman-Shochat S, Hunziker W.Biointerphases 6, 153 (2011); doi:10.1116/ 1.36443843.Probing Effects of pH change on Dynamic Response of Claudin-2 Mediated Adhesion Using Single Molecule Force Spectroscopy.Lim TS, Vedula SR, Huic S, Kausalya PJ, Hunzikerd W, Lim CT.Exp Cell Res. 2008 Aug 15;314(14):2643-51. Epub 2008 Jun 3.