

**CDH18 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant CDH18.****Catalog # AT1473a****Specification**

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**CDH18 Antibody (monoclonal) (M01) - Product Information**

Application	WB, IHC, E
Primary Accession	<a href="#">Q13634</a>
Other Accession	<a href="#">NM_004934</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	88073

**CDH18 Antibody (monoclonal) (M01) - Additional Information****Gene ID** 1016**Other Names**

Cadherin-18, Cadherin-14, CDH18, CDH14

**Target/Specificity**

CDH18 (NP\_004925, 467 a.a. ~ 576 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**

CDH18 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

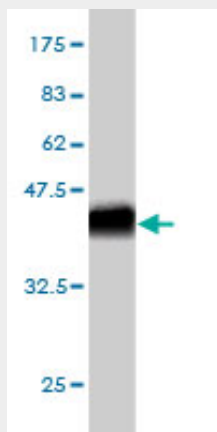
**CDH18 Antibody (monoclonal) (M01) - Protocols**

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

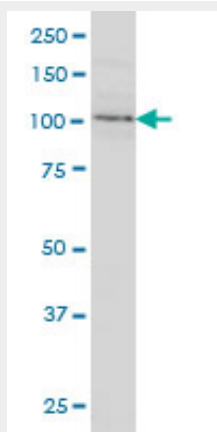
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

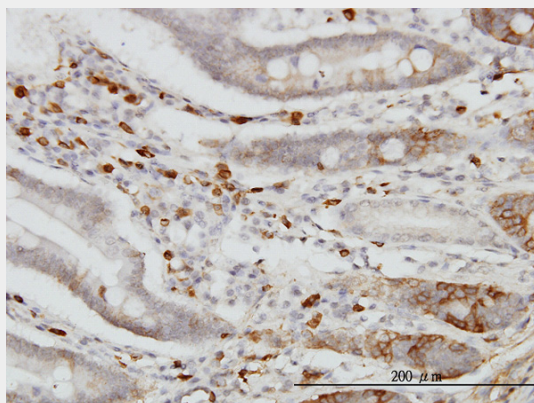
### CDH18 Antibody (monoclonal) (M01) - Images



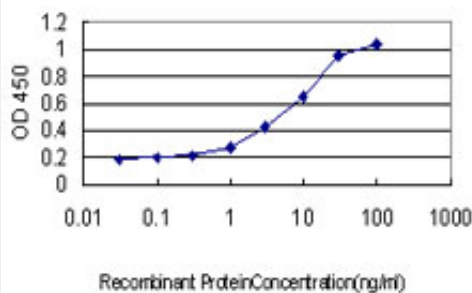
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 kDa) .



CDH18 monoclonal antibody (M01), clone 6F7 Western Blot analysis of CDH18 expression in HeLa (Cat # AT1473a)



Immunoperoxidase of monoclonal antibody to CDH18 on formalin-fixed paraffin-embedded human small intestine. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged CDH18 is approximately 0.1ng/ml as a capture antibody.

### **CDH18 Antibody (monoclonal) (M01) - Background**

This gene encodes a type II classical cadherin from the cadherin superfamily of integral membrane proteins that mediate calcium-dependent cell-cell adhesion. Mature cadherin proteins are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small, highly conserved C-terminal cytoplasmic domain. Type II (atypical) cadherins are defined based on their lack of a HAV cell adhesion recognition sequence specific to type I cadherins. This particular cadherin is expressed specifically in the central nervous system and is putatively involved in synaptic adhesion, axon outgrowth and guidance.

### **CDH18 Antibody (monoclonal) (M01) - References**

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.[Expressions of cadherin molecules CDH18 and PCDH17 in human azoospermic testes] Yang B, et al. Zhonghua Nan Ke Xue, 2009 Dec. PMID 20180417.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.Identification of three human type-II classic cadherins and frequent heterophilic interactions between different subclasses of type-II classic cadherins. Shimoyama Y, et al. Biochem J, 2000 Jul 1. PMID 10861224.