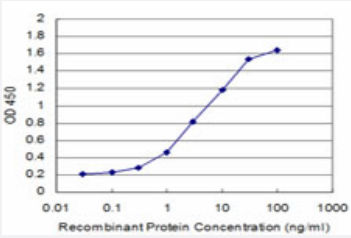
CDH11 monoclonal antibody (M01), clone 4D10

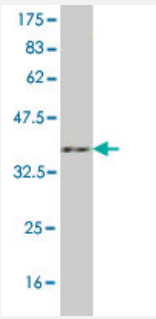
Catalog # H00001009-M01 Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CDH11 is approximately 0.3ng/ml as a capture antibody.



Western Blot detection against Immunogen (37.73 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant CDH11.
Immunogen	CDH11 (NP_001788, 509 a.a. ~ 617 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	PIVTISADDKDDTANGPRFIFSLPPEIIHNPNFTVRDNRDNTAGVYARRGGFSRQKQDLYLLPIVISDGGIPPMSSTNTLTIKVCGCDVNGALLSCNAEAYILNAGLST
Host	Mouse
Reactivity	Human

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Interspecies Antigen Sequence	Mouse (96); Rat (98)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.73 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged CDH11 is approximately 0.3ng/ml as a capture antibody.

  Protocol Download

- ELISA

Gene Info — CDH11

Entrez GeneID	1009
GeneBank Accession#	NM_001797
Protein Accession#	NP_001788
Gene Name	CDH11
Gene Alias	CAD11, CDHOB, OB, OSF-4
Gene Description	cadherin 11, type 2, OB-cadherin (osteoblast)
Omim ID	600023
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a type II classical cadherin from the cadherin superfamily, integral membrane proteins that mediate calcium-dependent cell-cell adhesion. Mature cadherin proteins are compo sed 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 o n their lack of a HAV cell adhesion recognition sequence specific to type I cadherins. Expression of this particular cadherin in osteoblastic cell lines, and its upregulation during differentiation, sugg ests a specific function in bone development and maintenance. [provided by RefSeq

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Other Designations	OB-cadherin|cadherin 11, type 2|cadherin-11|osteoblast cadherin

Publication Reference

- Development of a Surface Plasmon Resonance Biosensor for Real-Time Detection of Osteogenic Differentiation in Live Mesenchymal Stem Cells.

  Kuo YC, Ho JH, Yen TJ, Chen HF, Lee OK.

  PLoS One 2011 Jul; 6(7):e22382.

  Application: Func, Human, Hep-3B, Mesenchymal stem cells, SaOS2 cells

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Diabetes Complications
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Laryngeal Neoplasms
- Metabolic Syndrome X
- Mouth Neoplasms
- Neoplasms
- Osteoporosis
- Pharyngeal Neoplasms
- Tobacco Use Disorder

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