CDH11 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CDH11, Monoclonal Antibody
Full Product Name	CDH11 (Cadherin 11, Type 2, OB-Cadherin (Osteoblast), CAD11, CDHOB, OB, OSF-4) (MaxLight 490)
Product Gene Name	anti-CDH11 antibody
Product Synonym Names	Cadherin 11; Type 2; OB-Cadherin (Osteoblast); CAD11; CDHOB; OB; OSF-4
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2A2
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified
Specificity	Recognizes CDH11.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	87,965 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (64980683..65155919, complement). Location: 16q21
OMIM	600023
3D Structure	ModBase 3D Structure for P55287
Immunogen	CDH11 (P55287, 54aa-612aa) partial recombinant protein with GST tag.
Conjugate	MaxLight490
Product Categories/Family for anti-CDH11 antibody	Antibodies; Cadherin
Applications Tested/Suitable for anti-CDH11 antibody	FLISA, Western Blot (WB)
Application Notes for anti-CDH11 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CDH11 antibody	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 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. Expression of this particular cadherin in osteoblastic cell lines, and its upregulation during differentiation, suggests a specific function in bone development and maintenance. [provided by RefSeq]
Other Notes	Small volumes of anti-CDH11 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for CDH11 purchase	MBS6205565 is an antibody targeting CDH11. Also known as CDH11 (Cadherin 11, Type 2, OB-Cadherin (Osteoblast), CAD11, CDHOB, OB, OSF-4) (MaxLight 490). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDH11. It may not necessarily be applicable to this product.

NCBI GI #	16306532
NCBI GeneID	1009
NCBI Accession #	NP_001788.2
UniProt Primary Accession #	P55287
UniProt Secondary Accession #	Q15065; Q15066; Q9UQ93; Q9UQ94; A8K5D6; A8MZC8; B7WP28
UniProt Related Accession #	P55287
GenBank Nucleotide #	NM_001797.2
NCBI Official Full Name	cadherin-11 preproprotein
NCBI Official Synonym Full Names	cadherin 11, type 2, OB-cadherin (osteoblast)
NCBI Official Symbol	CDH11
NCBI Official Synonym Symbols	OB; CAD11; CDHOB; OSF-4
UniProt Protein Name	Cadherin-11
UniProt Synonym Protein Names	OSF-4; Osteoblast cadherin
Protein Family	Cadherin
UniProt Gene Name	CDH11
UniProt Synonym Gene Names	OB-cadherin
UniProt Entry Name	CAD11_HUMAN
NCBI Protein Information	cadherin-11
UniProt Comments for CDH11	CDH11: Cadherins are calcium dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. Interacts with PCDH8. Expressed mainly in brain but also found in other tissues. Expressed in neuroblasts. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Cell adhesion; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 16q21 Cellular Component: cytoplasm; integral to membrane; plasma membrane Molecular Function: calcium ion binding Biological Process: intercellular junction assembly and maintenance; ossification; corticospinal tract morphogenesis; homophilic cell adhesion; cell adhesion; skeletal development
Research Articles on CDH11	**1.** Results indicate the necessity of cadherin-11 for dystrophic calcific nodule formation, which proceeds through an Erk1/2-dependent pathway.
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