CDH4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CDH4, Polyclonal Antibody
Full Product Name	CDH4, NT (CDH4, Cadherin-4, Retinal cadherin) (MaxLight 405)
Product Gene Name	anti-CDH4 antibody
Product Synonym Names	CDH4; Cadherin-4; Retinal cadherin
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CDH4.
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: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	100,281 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (59827482..60515673). Location: 20q13.3
OMIM	603006
3D Structure	ModBase 3D Structure for P55283
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 175-203 in the N-terminal region of human CDH4, UniProt Accession #P55283. Species sequence homology: mouse, rat
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-CDH4 antibody	Antibodies; Cadherin
Applications Tested/Suitable for anti-CDH4 antibody	Flow Cytometry (FC/FACS), Western Blot (WB), Immunofluorescence (IF), Immunohistochemistry (IHC), FLISA
Application Notes for anti-CDH4 antibody	FC/FACS: 1:10-1:50 WB: 1:1000 IHC: 1:10-1:50 Applications are based on unconjugated antibody.
Related Product Information for anti-CDH4 antibody	MBS6284198 is an antibody targeting CDH4. Also known as CDH4, NT (CDH4, Cadherin-4, Retinal cadherin) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CDH4 antibody	Miotto, E., Cancer Res. 64 (22), 8156-8159 (2004). Johnson, E., J. Biol. Chem. 279 (30), 31041-31049 (2004). Kitagawa, M., Biochem. Biophys. Res. Commun. 271 (2), 358-363 (2000).

Other Notes	Small volumes of anti-CDH4 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDH4. It may not necessarily be applicable to this product.

NCBI GI #	356640221
NCBI GeneID	1002
NCBI Accession #	NP_001239267.1
UniProt Primary Accession #	P55283
UniProt Secondary Accession #	Q2M208; Q5VZ44; Q9BZ05; B3KWB8; G3V1P8
UniProt Related Accession #	P55283
GenBank Nucleotide #	NM_001252338.1
NCBI Official Full Name	cadherin-4 isoform 2
NCBI Official Synonym Full Names	cadherin 4, type 1, R-cadherin (retinal)
NCBI Official Symbol	CDH4
NCBI Official Synonym Symbols	CAD4; RCAD
UniProt Protein Name	Cadherin-4
UniProt Synonym Protein Names	Retinal cadherin
UniProt Gene Name	CDH4
UniProt Synonym Gene Names	R-CAD; R-cadherin
UniProt Entry Name	CADH4_HUMAN
NCBI Protein Information	cadherin-4; R-CAD; R-cadherin; retinal cadherin; cadherin 4, type 1, preproprotein
NCBI Summary for CDH4	This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Based on studies in chicken and mouse, this cadherin is thought to play an important role during brain segmentation and neuronal outgrowth. In addition, a role in kidney and muscle development is indicated. Of particular interest are studies showing stable cis-heterodimers of cadherins 2 and 4 in cotransfected cell lines. Previously thought to interact in an exclusively homophilic manner, this is the first evidence of cadherin heterodimerization. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]
UniProt Comments for CDH4	CDH4: 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. May play an important role in retinal development. Expressed mainly in brain but also found in other tissues. Protein type: Motility/polarity/chemotaxis; Cell adhesion; Membrane protein, integral Chromosomal Location of Human Ortholog: 20q13.3 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: calcium ion binding Biological Process: heterophilic cell adhesion; axon guidance; intercellular junction assembly and maintenance; positive regulation of axon extension; cell adhesion; homophilic cell adhesion
Research Articles on CDH4	**1.** R-cadherin adherens junction formation facilitates a mesenchymal to epithelial-like transition in MDA-MB-231 cells.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/cdh4/6284198