CDON Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CDON, Monoclonal Antibody
Full Product Name	CDON (Cell Adhesion Molecule-related/Down-regulated by Oncogenes, CDO, MGC111524, ORCAM) (MaxLight 750)
Product Gene Name	anti-CDON antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2G12
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CDON.
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 amo to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of proc centrifuge the original vial prior to removing the cap.
OMIM	608707
3D Structure	ModBase 3D Structure for Q4KMG0
Immunogen	Partial recombinant corresponding to aa1155-1264 from human CDON (NP_058648) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	VKVPVCLTSAVPDCGQLPEESVKDNVEPVPTQRTCCQDIVNDVSSDGSEDPAEFSRGDSCAHSETEINIVSWNALILPPVPEGCAEKTMWSPPGIPLDSP
Conjugate	MaxLight750
Product Categories/Family for anti-CDON antibody	Antibodies; Disease Markers
Applications Tested/Suitable for anti-CDON antibody	FLISA, Western Blot (WB)
Application Notes for anti-CDON antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CDON antibody	CDON and BOC (MIM 608708) are cell surface receptors of the immunoglobulin (Ig)/fibronectin type III (FNIII; see MIM 135600) repeat family involved differentiation. CDON and BOC are coexpressed during development, form complexes with each other in a cis fashion, and are related to each other in ectodomains, but each has a unique long cytoplasmic tail.

Other Notes	Small volumes of anti-CDON antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess 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 may apply.
Searchable Terms for CDON purchase	MBS6232089 is an antibody targeting CDON. Also known as CDON (Cell Adhesion Molecule-related/Down-regulated by Oncogenes, CDO, MGC1115 (MaxLight 750). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	142976733
NCBI GeneID	50937
NCBI Accession #	NP_058648
UniProt Primary Accession #	Q4KMG0
UniProt Related Accession #	Q4KMG0
GenBank Nucleotide #	NM_016952
NCBI Official Full Name	cell adhesion molecule-related/down-regulated by oncogenes isoform 2
NCBI Official Synonym Full Names	cell adhesion associated, oncogene regulated
NCBI Official Symbol	CDON
NCBI Official Synonym Symbols	CDO; CDON1; HPE11; ORCAM
UniProt Protein Name	Cell adhesion molecule-related/down-regulated by oncogenes
Protein Family	Cell adhesion molecule-related/down-regulated by oncogenes
UniProt Gene Name	CDON
UniProt Synonym Gene Names	CDO
UniProt Entry Name	CDON_HUMAN
NCBI Protein Information	cell adhesion molecule-related/down-regulated by oncogenes
NCBI Summary for CDON	This gene encodes a cell surface receptor that is a member of the immunoglobulin superfamily. The encoded protein contains three fibronectin type III domains and five immunoglobulin-like C2-type domains. This protein is a member of a cell-surface receptor complex that mediates cell-cell interactions between muscle precursor cells and positively regulates myogenesis. [provided by RefSeq, Aug 2011]

UniProt Comments for CDON	CDON: Component of a cell-surface receptor complex that mediates cell-cell interactions between muscle precursor cells. Promotes differentiation of myogenic cells. Defects in CDON are the cause of holoprosencephaly type 11 (HPE11). HPE11 is a structural anomaly of the brain, in which the developing forebrain fails to correctly separate into right and left hemispheres. Holoprosencephaly is genetically heterogeneous and associated with several distinct facies and phenotypic variability. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell adhesion; Membrane protein, integral; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 11q24.2 Cellular Component: extracellular matrix; integral to membrane; plasma membrane Molecular Function: protein binding Biological Process: lens development in camera-type eye; regulation of protein heterodimerization activity; smoothened signaling pathway; satellite cell differentiation; cell fate specification; positive regulation of skeletal muscle development; anterior/posterior pattern formation; positive regulation of small GTPase mediated signal transduction; embryonic body morphogenesis; muscle cell differentiation; positive regulation of MAPKKK cascade; embryonic retina morphogenesis in camera-type eye; positive regulation of muscle cell differentiation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of protein amino acid phosphorylation; cerebral cortex development; cell adhesion; positive regulation of neuron differentiation; myoblast fusion Disease: Holoprosencephaly 11
Research Articles on CDON	**1.** We identified a novel heterozygous nonsense CDON mutation in a case of Pituitary Stalk Interruption Syndrome who presented with neonatal hypoglycemia and cholestasis
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