

CDON Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP54824

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q4KMG0
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	139147
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CDON
Epitope Specificity	101-200/1287
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell Membrane
SIMILARITY	Contains 3 fibronectin type-III domains. Contains 5 Ig-like C2-type (immunoglobulin-like) domains.
SUBUNIT	Part of a complex that contains BOC, CDON, NEO1, cadherins and CTNNB1. Interacts with NTN3 (By similarity). Interacts with PTCH1 (By similarity). Interacts with GAS1 (By similarity).
Post-translational modifications	N-glycosylated (By similarity).
DISEASE	Defects in CDON are the cause of holoprosencephaly type 11 (HPE11) [MIM:614226]. 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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Cell adhesion molecule-related/down-regulated by oncogenes (CDO) and BOC (brother of CDO) are members of the immunoglobulin/fibronectin type III repeat family and act as cell surface receptors. CDO is a component of a cell-surface receptor complex which also contains BOC, NEO1, CTNNB1 and cadherins and which acts as a mediator of cell-cell interactions between muscle cells. CDO and BOC are single pass membrane proteins that play a role in myogenic cell differentiation. Together, CDO and BOC participate in a positive feedback loop with MyoD, a myogenic transcription factor. The 1,242 amino acid rat CDO protein has a 24 residue signal sequence, five Ig V-like repeats, a 25 residue membrane-spanning region, three FNIII-like repeats and a cytoplasmic region of 256 amino acids containing a proline-rich stretch. The human protein contains 1,225 amino acid residues and shares significant homology with the domain structures of the rat protein.

Additional Information

Gene ID	50937
Other Names	Cell adhesion molecule-related/down-regulated by oncogenes, CDON, CDO
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CDON
Synonyms	CDO
Function	Component of a cell-surface receptor complex that mediates cell-cell interactions between muscle precursor cells. Promotes differentiation of myogenic cells (By similarity).
Cellular Location	Cell membrane; Single-pass membrane protein

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.