Cubilin (CUBN) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cubilin (CUBN), Polyclonal Antibody
Full Product Name	PE-Linked Polyclonal Antibody to Cubilin (CUBN)
Product Gene Name	anti-CUBN antibody
Product Synonym Names	IFCR; MGA1; gp280; Intrinsic Factor Cobalamin Receptor; 460 kDa receptor; Intestinal intrinsic factor receptor; Intrinsic factor-vitamin B12 receptor
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Concentration	>=100ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: CUBN (MBS2006888) PE Conjugated Antibody: CUBN (MBS2065437)
Matching Pairs	PE Conjugated Antibody: CUBN (MBS2065437) Immunogen: CUBN (MBS2009447)
Molecular Weight	398,987 Da
3D Structure	ModBase 3D Structure for O70244
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	CUBN (Cys3157~Met3274)
Conjugation	PE
Cross Reactivity	Human
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2006888
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-CUBN antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-CUBN antibody	MBS2065437 is an antibody targeting CUBN. Also known as PE-Linked Polyclonal Antibody to Cubilin (CUBN). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-CUBN 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 CUBN. It may not necessarily be applicable to this product.

NCBI GI #	16758040
NCBI GeneID	80848
NCBI Accession #	NP_445784.1

UniProt Primary Accession #	O70244
UniProt Related Accession #	O70244
GenBank Nucleotide #	NM_053332.2
NCBI Official Full Name	cubilin
NCBI Official Synonym Full Names	cubilin
NCBI Official Symbol	Cubn
NCBI Official Synonym Symbols	IFCR; MGA1; GP280
UniProt Protein Name	Cubilin
UniProt Synonym Protein Names	460 kDa receptor; Glycoprotein 280; gp280; Intrinsic factor-cobalamin receptor; Intrinsic factor-vitamin B12 receptor
Protein Family	Cubilin
UniProt Gene Name	Cubn
UniProt Synonym Gene Names	Ifcr; gp280
NCBI Protein Information	cubilin
NCBI Summary for CUBN	receptor for intrinsic factor (IF)-cobalamin; involved in vitamin B12 uptake (cyanocobalamin) [RGD, Feb 2006]
UniProt Comments for CUBN	CUBN: Cotransporter which plays a role in lipoprotein, vitamin and iron metabolism, by facilitating their uptake. Binds to ALB, MB, Kappa and lambda-light chains, TF, hemoglobin, GC, SCGB1A1, APOA1, high density lipoprotein, and the GIF-cobalamin complex. The binding of all ligands requires calcium. Serves as important transporter in several absorptive epithelia, including intestine, renal proximal tubules and embryonic yolk sac. Interaction with LRP2 mediates its trafficking throughout vesicles and facilitates the uptake of specific ligands like GC, hemoglobin, ALB, TF and SCGB1A1. Interaction with AMN controls its trafficking to the plasma membrane and facilitates endocytosis of ligands. May play an important role in the development of the peri-implantation embryo through internalization of APOA1 and cholesterol. Binds to LGALS3 at the maternal-fetal interface. Defects in CUBN are a cause of recessive hereditary megaloblastic anemia 1 (RH-MGA1); also known as MGA1 Norwegian type or Imerslund-Grasbeck syndrome (I-GS). RH-MGA1 is due to selective malabsorption of vitamin B12. Defects in vitamin B12 absorption lead to impaired function of thymidine synthase. As a consequence DNA synthesis is interrupted. Rapidly dividing cells involved in erythropoiesis are particularly affected. Chromosomal Location of Human Ortholog: 17q12.3 Cellular Component: apical part of cell; apical plasma membrane; brush border; brush border membrane; coated pit; cytoplasm; endocytic vesicle; endoplasmic reticulum; endosome; Golgi apparatus; lysosomal lumen; membrane; protein complex Molecular Function: cobalamin transporter activity; hemoglobin binding; identical protein binding; protein homodimerization activity; receptor activity Biological Process: cobalamin transport; hemoglobin import; in utero embryonic development; lipoprotein transport; receptor-mediated endocytosis; response to nutrient; vitamin metabolic process
Research Articles on CUBN	**1.** The inhibition of megalin/cubilin or lysosomal cathepsin B reduced albuminuria-induced NLRP3 inflammasome activation.
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