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Anti-Cubilin CUBN Rabbit Monoclonal Antibody

Catalog # ABO13881

Product Information

Application	WB
Primary Accession	O60494
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-Cubilin CUBN Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human.

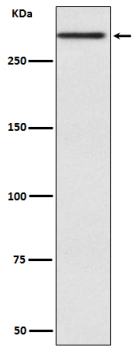
Additional Information

Gene ID	8029
Other Names	Cubilin, 460 kDa receptor, Intestinal intrinsic factor receptor, Intrinsic factor-cobalamin receptor, Intrinsic factor-vitamin B12 receptor, CUBN, IFCR
Calculated MW	398736
Application Details	WB 1:500-1:2000
Subcellular Localization	Apical cell membrane ; Peripheral membrane protein. Cell membrane ; Peripheral membrane protein. Membrane, coated pit. Endosome. Lysosome membrane ; Peripheral membrane protein. Colocalizes with AMN and LRP2 in the endocytotic apparatus of epithelial cells..
Tissue Specificity	Expressed in kidney proximal tubule cells, placenta, visceral yolk-sac cells and in absorptive intestinal cells. Expressed in the epithelium of intestine and kidney.
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: EF-3
Immunogen	A synthesized peptide derived from human Cubilin
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	CUBN
Synonyms	IFCR
Function	Endocytic receptor which plays a role in lipoprotein, vitamin and iron metabolism by facilitating their uptake (PubMed:10371504, PubMed:11606717, PubMed:11717447, PubMed:14576052, PubMed:9572993). Acts together with LRP2 to mediate endocytosis of high-density lipoproteins, GC, hemoglobin, ALB, TF and SCGB1A1. Acts together with AMN to mediate endocytosis of the CBLIF-cobalamin complex (PubMed:14576052, PubMed:9572993). Binds to ALB, MB, Kappa and lambda-light chains, TF, hemoglobin, GC, SCGB1A1, APOA1, high density lipoprotein, and the CBLIF-cobalamin complex. Ligand binding requires calcium (PubMed:9572993). Serves as important transporter in several absorptive epithelia, including intestine, renal proximal tubules and embryonic yolk sac. 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.
Cellular Location	Apical cell membrane {ECO:0000250|UniProtKB:Q9JLB4}; Peripheral membrane protein. Cell membrane; Peripheral membrane protein {ECO:0000305, ECO:0000305|PubMed:30523278}. Membrane, coated pit. Endosome. Lysosome membrane {ECO:0000250|UniProtKB:O70244}; Peripheral membrane protein. Note=Lacks a transmembrane domain and depends on interaction with AMN for location at the plasma membrane (PubMed:29402915, PubMed:30523278). Colocalizes with AMN and LRP2 in the endocytotic apparatus of epithelial cells (By similarity) {ECO:0000250|UniProtKB:O70244, ECO:0000269|PubMed:29402915, ECO:0000269|PubMed:30523278}
Tissue Location	Detected in kidney cortex (at protein level) (PubMed:9572993). Expressed in kidney proximal tubule cells, placenta, visceral yolk-sac cells and in absorptive intestinal cells. Expressed in the epithelium of intestine and kidney

Images



Western blot analysis of Cubilin expression in Human fetal kidney lysate.

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