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Anti-Cubilin CUBN Rabbit Monoclonal Antibody

Catalog # ABO13882

Product Information

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

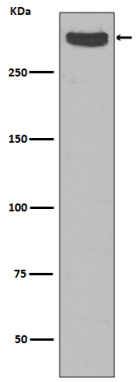
Additional Information

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 IHC 1:50-1:200
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: GA-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

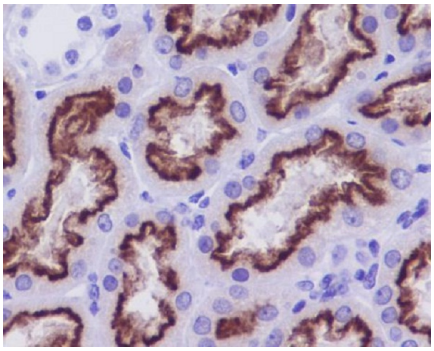
Name	CUBN
Synonyms	IFCR
Function	Endocytic receptor which plays a role in lipoprotein, vitamin and iron metabolism by facilitating their uptake (PubMed:10371504, PubMed:11606717, PubMed:11717447, PubMed:14576052, PubMed:9572993). Acts together with LRP2 to mediate endocytosis of high-density lipoproteins, 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.

Immunohistochemical analysis of paraffin-embedded human kidney, using Cubilin Antibody.



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