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Anti-Cubilin CUBN Rabbit Monoclonal Antibody

Catalog # ABO13882

Specification

Anti-Cubilin CUBN Rabbit Monoclonal Antibody - 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.

Anti-Cubilin CUBN Rabbit Monoclonal Antibody - 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 MW KDa

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.

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.

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.**

Anti-Cubilin CUBN Rabbit Monoclonal Antibody - 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

Anti-Cubilin CUBN Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

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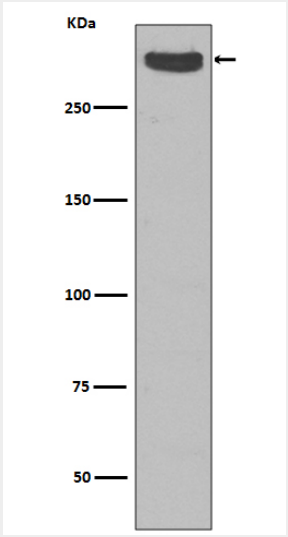
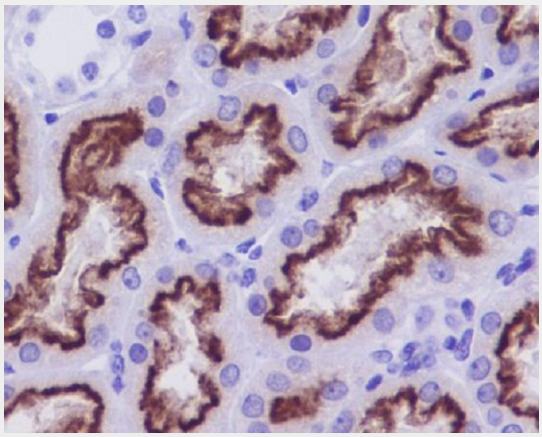
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Cubilin CUBN Rabbit Monoclonal Antibody - Images



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



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