

# Cubilin Antibody

Rabbit mAb

Catalog # AP90069

## Product Information

<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">O60494</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	Cubilin; Cubn; IFCR; MGA1; Cubilin precursor; megaloblastic anemia 1;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	398736

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human Cubilin
<b>Description</b>	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.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

<b>Name</b>	CUBN
<b>Synonyms</b>	IFCR
<b>Function</b>	Endocytic receptor which plays a role in lipoprotein, vitamin and iron metabolism by facilitating their uptake (PubMed: <a href="#">10371504</a> , PubMed: <a href="#">11606717</a> , PubMed: <a href="#">11717447</a> , PubMed: <a href="#">14576052</a> , PubMed: <a href="#">9572993</a> ). 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: <a href="#">14576052</a> , PubMed: <a href="#">9572993</a> ). 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: <a href="#">9572993</a> ). 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

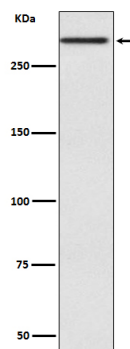
Apical cell membrane {ECO:0000250|UniProtKB:Q9JLB4}; Peripheral membrane protein. Cell membrane; Peripheral membrane protein {ECO:0000305, ECO:0000305|PubMed:30523278}. Membrane, coated pit. Endosome. Lysosome membrane {ECO:0000250|UniProtKB:O70244}; Peripheral membrane protein. Note=Lacks a transmembrane 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

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

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