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# Cubilin Antibody

Rabbit mAb
Catalog # AP90069

## Product Information

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| **Application** | WB |
| **Primary Accession** | O60494 |
| **Reactivity** | Rat, Human, Mouse |
| **Clonality** | Monoclonal |
| **Other Names** | Cubilin; Cubn; IFCR; MGA1; Cubilin precursor; megaloblastic anemia 1; |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Calculated MW** | 398736 |

## Additional Information

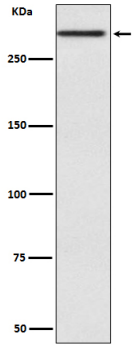
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| **Dilution** | WB 1:500~1:2000 |
| **Purification** | Affinity-chromatography |
| **Immunogen** | A synthesized peptide derived from human Cubilin |
| **Description** | Cotransporter which plays a role in lipoprotein, vitamin and iron metabolism, 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. |
| **Storage Condition and Buffer** | 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

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| **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. |

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| | 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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