Anti-Cubilin antibody

Description	Rabbit polyclonal to Cubilin.

Model	STJ92520
Host	Rabbit
Reactivity	Human
Applications	ELISA, IHC
Immunogen	Synthesized peptide derived from human Cubilin.
Immunogen Region	N-terminal
Gene ID	8029
Gene Symbol	CUBN
Dilution range	IHC 1:100-1:300ELISA 1:40000
Specificity	Cubilin Polyclonal Antibody detects endogenous levels of Cubilin protein.
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.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Cubilin 460 kDa receptor Intestinal intrinsic factor receptor Intrinsic factor-cobalamin receptor Intrinsic factor-vitamin B12 receptor
Molecular Weight	398.726 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:2548OMIM:261100
Alternative Names	Cubilin 460 kDa receptor Intestinal intrinsic factor receptor Intrinsic factor-cobalamin receptor Intrinsic factor-vitamin B12 receptor
Function	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. Interaction with LRP2 mediates its trafficking throughout vesicles and facilitates the uptake of specific ligands like GC, hemoglobin, ALB, TF and SCGB1A1. Interaction with AMN controls its trafficking to the plasma membrane and facilitates endocytosis of ligands. 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.
Sequence and Domain Family	The CUB domains 5 to 8 mediate binding to GIF and ALB. CUB domains 1 and 2 mediate interaction with LRP2.
Cellular Localization	Apical cell membrane Cell membrane Membrane, coated pit Endosome Lysosome membrane. Colocalizes with AMN and LRP2 in the endocytotic apparatus of epithelial cells.
Post-translational Modifications	The precursor is cleaved by a trans-Golgi proteinase furin. The result is a propeptide cleaved off. N-glycosylated.