

ARG57587 anti-Cubilin antibody

Package: 100 μl Store at: -20°C

Summary

| Product Description | Rabbit Polyclonal antibody recognizes Cubilin |
|---------------------|--|
| Tested Reactivity | Hu |
| Tested Application | IHC-P, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| lsotype | lgG |
| Target Name | Cubilin |
| Species | Human |
| Immunogen | Synthetic peptide from Human Cubilin. |
| Conjugation | Un-conjugated |
| Alternate Names | Intrinsic factor-vitamin B12 receptor; Cubilin; Intrinsic factor-cobalamin receptor; IFCR; Intestinal intrinsic factor receptor; MGA1; gp280; 460 kDa receptor |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|--|
| | IHC-P | 1:50 - 1:200 |
| | WB | 1:500 - 1:2000 |
| Application Note | * The dilutions indicate recomme should be determined by the scie | nded starting dilutions and the optimal dilutions or concentrations ntist. |

Properties

| Form | Liquid |
|---------------------|---|
| Purification | Affinity purified. |
| Buffer | PBS (pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 50% Glycerol |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |
| | |

Bioinformation

| Gene Symbol | CUBN |
|----------------|---|
| Gene Full Name | cubilin (intrinsic factor-cobalamin receptor) |
| Background | Cubilin (CUBN) acts as a receptor for intrinsic factor-vitamin B12 complexes. The role of receptor is supported by the presence of 27 CUB domains. Cubulin is located within the epithelium of intestine and kidney. Mutations in CUBN may play a role in autosomal recessive megaloblastic anemia. [provided by RefSeq, Jul 2008] |
| 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. [UniProt] |
| Calculated Mw | 399 kDa |
| PTM | The precursor is cleaved by a trans-Golgi proteinase furin. The result is a propeptide cleaved off. |
| | N-glycosylated. [UniProt] |

Images



ARG57587 anti-Cubilin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human kidney tissue stained with ARG57587 anti-Cubilin antibody.



ARG57587 anti-Cubilin antibody WB image

Western blot: Human fetal kidney lysate stained with ARG57587 anti-Cubilin antibody.