

Cubilin (CUBN) Active Protein | CUBN active protein

Active Cubilin (CUBN)

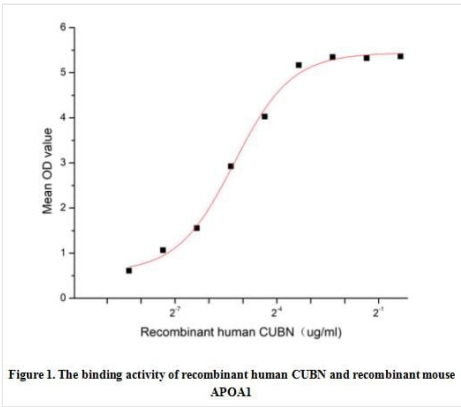
CATALOG # AAA161888	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Cubilin (CUBN); Active Cubilin (CUBN); Cubilin; IFCR; MGA1; gp280; Intrinsic Factor Cobalamin Receptor; 460 kDa receptor; Intestinal intrinsic factor receptor; Intrinsic factor-vitamin B12 receptor4; CUBN active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Cys3511~Se r3623
Applicable Applications for CUBN active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	5.9
Research Area	Signal transduction, Metabolic pathway, Nutrition metabolism, Dermatology
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

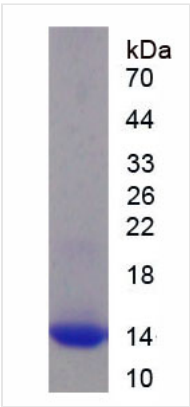


Bioactivity

Cubilin (CUBN) is a 460 kDa intrinsic factor-vitamin B12 receptor protein and it is expressed in kidney and small intestine. CUBN is a component of a multiligand endocytic receptor complex, which plays a role in lipoprotein, vitamin and iron metabolism by facilitating their uptake. Besides CUBN serves as important transporter in several absorptive epithelia, including intestine, renal proximal tubules and embryonic yolk sac and it plays an important role in the development of the peri-implantation embryo through internalization of APOA1 and cholesterol. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human CUBN and recombinant mouse APOA1. Briefly, CUBN was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to APOA1-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-CUBN pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human CUBN and recombinant mouse APOA1 was shown in Figure 1, the EC50 for this effect is 0.03 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for CUBN active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	126091152
NCBI GeneID	8029
NCBI Accession #	NP_001072.2
NCBI GenBank Nucleotide #	NM_001081.3
UniProt Accession #	O60494; Q5VTA6; Q96RU9; B0YIZ4
Molecular Weight	398736 MW
NCBI Official Full Name	cubilin
NCBI Official Synonym Full Names	cubilin
NCBI Official Symbol	CUBN
NCBI Official Synonym Symbols	IFCR; MGA1; gp280
NCBI Protein Information	cubilin
UniProt Protein Name	Cubilin
UniProt Gene Name	CUBN
UniProt Synonym Gene Names	IFCR

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/cubilin-cubn/161888>