abcam

Product datasheet

Recombinant Human CRBN protein (Tagged) ab235609

1 Image

Description

Product name	Recombinant Human CRBN protein (Tagged)
Purity	> 90 % SDS-PAGE. Purified from an in vitro E.coli expression system.
Expression system	Escherichia coli
Accession	Q96SW2
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MAGEGDQQDAAHNMGNHLPLLPAESEEEDEMEVEDQD SKEAKKPNIINFD TSLPTSHTYLGADMEEFHGRTLHDDDSCQVIPVLPQVMMI LIPGQTLPLQ LFHPQEVSMVRNLIQKDRTFAVLAYSNVQEREAQFGTTAE IYAYREEQDF GIEIVKVKAIGRQRFKVLELRTQSDGIQQAKVQILPECVLPS TMSAVQLE SLNKCQIFPSKPVSREDQCSYKWWQKYQKRKFHCANLTS WPRWLYSLYDA ETLMDRIKKQLREWDENLKDDSLPSNPIDFSYRVAACLPI DDVLRIQLLK IGSAIQRLRCELDIMNKCTSLCCKQCQETEITTKNEIFSLSL CGPMAAYV NPHGYVHETLTVYKACNLNLIGRPSTEHSWFPGYAWTVAQ CKICASHIGW KFTATKKDMSPQKFWGLTRSALLPTIPDTEDEISPDKVILC L
Predicted molecular weight	65 kDa including tags
Amino acids	1 to 442
Tags	His tag N-Terminus
Additional sequence information	N-terminal 6xHis-B2M-tagged. In vitro E.coli expression system.

Specifications

Our **Abpromise guarantee** covers the use of **ab235609** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

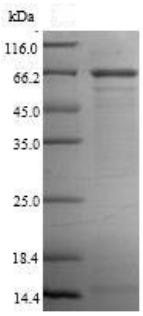
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.20 Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)

General Info

Function	Component of some DCX (DDB1-CUL4-X-box) E3 protein ligase complex, a complex that mediates the ubiquitination and subsequent proteasomal degradation of target proteins and is required for limb outgrowth and expression of the fibroblast growth factor FGF8. In the complex, may act as a substrate receptor. Regulates the assembly and neuronal surface expression of large-conductance calcium-activated potassium channels in brain regions involved in memory and learning via its interaction with KCNT1.
Tissue specificity	Widely expressed. Highly expressed in brain.
Pathway	Protein modification; protein ubiquitination.
Involvement in disease	Defects in CRBN are the cause of mental retardation autosomal recessive type 2A (MRT2A) [MIM:607417]. MRT2A patients display mild mental retardation with a standard IQ ranged from 50 to 70. IQ scores are lower in males than females. Developmental milestones are mildly delayed. There are no dysmorphic or autistic features. Non-syndromic mental retardation patients do not manifest other clinical signs.
Sequence similarities	Belongs to the CRBN family. Contains 1 Lon domain.
Post-translational modifications	Ubiquitinated, ubiquitination is mediated by its own DCX protein ligase complex.
Cellular localization	Cytoplasm. Nucleus. Membrane.

Images



SDS-PAGE - Recombinant Human CRBN protein (Tagged) (ab235609)

ab235609 analyzed by (Tris-Glycine gel) discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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