

Recombinant Human CRBN protein (His tag) ab235611

1 Image

| Description | |
|---------------------------------|--|
| Product name | Recombinant Human CRBN protein (His tag) |
| Purity | > 90 % SDS-PAGE. Purified from an invitro E.coli expression system. |
| Expression system | Cell free |
| Accession | <u>Q96SW2</u> |
| Protein length | Full length protein |
| Animal free | No |
| Nature | Recombinant |
| Species | Human |
| Sequence | MAGEGDQQDAAHNMGNHLPLLP AESEEEDEMEVEDQD SKEAKKPNIIINF TSLPTSHTYL GADMEEFHGRTLHDD DSCQVIPVLPQVMMI LIPGQTLPLQ LFHPQEVSMVRNLIQKDRTFAVLAYS NVQEREAQFGTTAE IYAYREEQDF GIEIVKVK AIGRQRFKVLELRTQSDGIQQA KVQILPECVLPS TMSAVQLE SLNKCQIFPSKPV SREDQCSYKWWQKYQKRKFHCANLTS WPRWLYSLYDA ETLMDRIKKQLREWDENLKDDSLPSNPIDFSYRVAACLPI DDVLR IQLLK IGSAIQRLRCELDIMNKCTSLCCKQCQETEITTKNEIFSLSL CGPMAAYV NPHGYVHETLTVYKACNLNLIGRPSTEHSWFPGYAWTVAQ CKICASHIGW KFTATKKDMSPQKFWGLTRSALLPTIPDTEDEISPDKVILC L |
| Predicted molecular weight | 51 kDa including tags |
| Amino acids | 1 to 442 |
| Tags | His tag C-Terminus |
| Additional sequence information | C-terminal 6xHis-tagged |

Specifications

Our **Abpromise guarantee** covers the use of **ab235611** 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: 7.2
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
(His tag) (ab235611)

ab235611 analyzed by (Tris-Glycine gel) discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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