# abcam

## Product datasheet

## 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 Q96SW2

Protein length Full length protein

Animal free No

Nature Recombinant

**Species** Human

**Sequence** MAGEGDQQDAAHNMGNHLPLLPAESEEEDEMEVEDQD

SKEAKKPNIINFD

 ${\tt TSLPTSHTYLGADMEEFHGRTLHDDDSCQVIPVLPQVMMI}$ 

LIPGQTLPLQ

LFHPQEVSMVRNLIQKDRTFAVLAYSNVQEREAQFGTTAE

**IYAYREEQDF** 

GIEIVKVKAIGRQRFKVLELRTQSDGIQQAKVQILPECVLPS

TMSAVQLE

SLNKCQIFPSKPVSREDQCSYKWWQKYQKRKFHCANLTS

WPRWLYSLYDA

ETLMDRIKKQLREWDENLKDDSLPSNPIDFSYRVAACLPI

DDVLRIQLLK

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

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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.

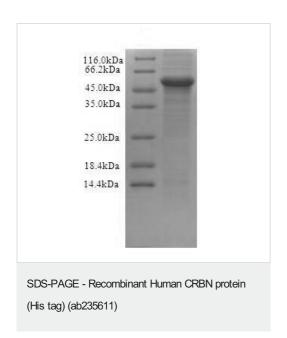
Post-translational

modifications

Ubiquitinated, ubiquitination is mediated by its own DCX protein ligase complex.

**Cellular localization** Cytoplasm. Nucleus. Membrane.

#### **Images**



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

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