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CRBN antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14025

Specification

CRBN antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	Q96SW2
Other Accession	NM_016302, NP_057386
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig**
Predicted	**Human, Mouse, Rat, Rabbit, Pig, Chicken, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**50kDa KDa**

CRBN antibody - N-terminal region - Additional Information

Gene ID 51185

Alias Symbol	**DKFZp781K0715, MGC27358, MRT2A, MRT2**

Other Names
Protein cereblon, CRBN

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-CRBN antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
CRBN antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

CRBN antibody - N-terminal region - Protein Information

Name CRBN

Function
Substrate recognition component of a DCX (DDB1-CUL4-X-box) E3 protein ligase complex that mediates the ubiquitination and subsequent proteasomal degradation of target proteins, such as MEIS2, ILF2 or GLUL (PubMed:26990986, PubMed:33009960). Normal degradation of key regulatory proteins is required for normal limb outgrowth and expression of the fibroblast growth factor FGF8 (PubMed:20223979, PubMed:<a

href="http://www.uniprot.org/citations/24328678" target="_blank">24328678, PubMed:25043012, PubMed:25108355). Maintains presynaptic glutamate release and consequently cognitive functions, such as memory and learning, by negatively regulating large-conductance calcium-activated potassium (BK) channels in excitatory neurons (PubMed:18414909, PubMed:29530986). Likely to function by regulating the assembly and neuronal surface expression of BK channels via its interaction with KCNT1 (PubMed:18414909). May also be involved in regulating anxiety-like behaviors via a BK channel-independent mechanism (By similarity). Plays a negative role in TLR4 signaling by interacting with TRAF6 and ECSIT, leading to inhibition of ECSIT ubiquitination, an important step of the signaling (PubMed:31620128).

Cellular Location
Cytoplasm. Nucleus. Membrane; Peripheral membrane protein

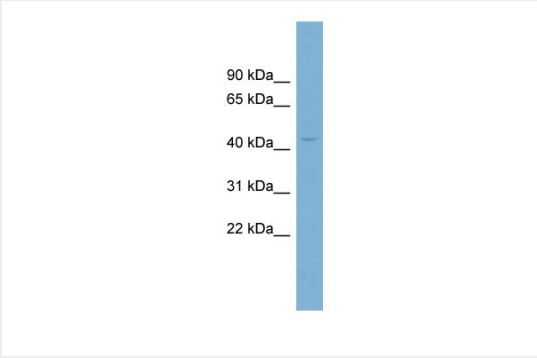
Tissue Location
Widely expressed. Highly expressed in brain.

CRBN antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CRBN antibody - N-terminal region - Images



WB Suggested Anti-CRBN Antibody Titration: 0.2-1 µg/ml
Positive Control: COLO205 cell lysate

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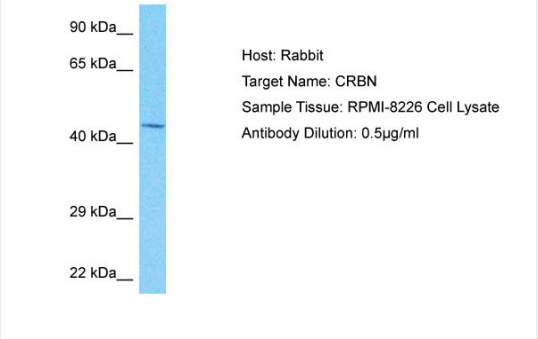

Host: Rabbit
Target Name: CRBN
Sample Tissue: RPMI-8226 Whole Cell lysates
Antibody Dilution: 0.5µg/ml

CRBN antibody - N-terminal region - References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Muzny D.M.,et al.Nature 440:1194-1198(2006).
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Bechtel S.,et al.BMC Genomics 8:399-399(2007).
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