

CRBN Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54605

Specification

CRBN Polyclonal Antibody - Product Information

Application	IHC-P
Primary Accession	O96SW2
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50546

CRBN Polyclonal Antibody - Additional Information

Gene ID 51185

Other Names

Protein cereblon, CRBN

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

CRBN Polyclonal Antibody - 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](http://www.uniprot.org/citations/26990986), PubMed: [33009960](http://www.uniprot.org/citations/33009960)). Normal degradation of key regulatory proteins is required for normal limb outgrowth and expression of the fibroblast growth factor FGF8 (PubMed: [20223979](http://www.uniprot.org/citations/20223979), PubMed: [24328678](http://www.uniprot.org/citations/24328678), PubMed: [25043012](http://www.uniprot.org/citations/25043012), PubMed: [25108355](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/18414909), PubMed: [29530986](http://www.uniprot.org/citations/29530986)). Likely to function by regulating the assembly and neuronal surface expression of BK channels via its interaction with KCNT1 (PubMed:

<http://www.uniprot.org/citations/18414909> target="_blank">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

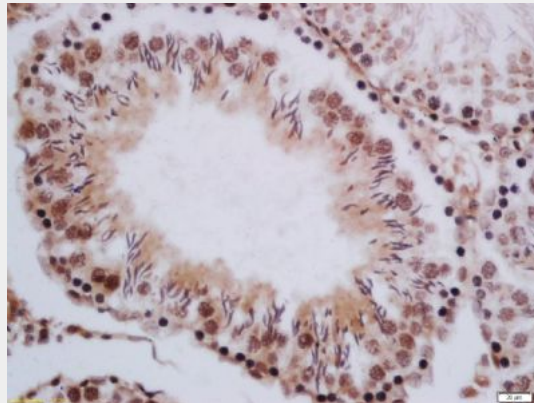
Widely expressed. Highly expressed in brain.

CRBN Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

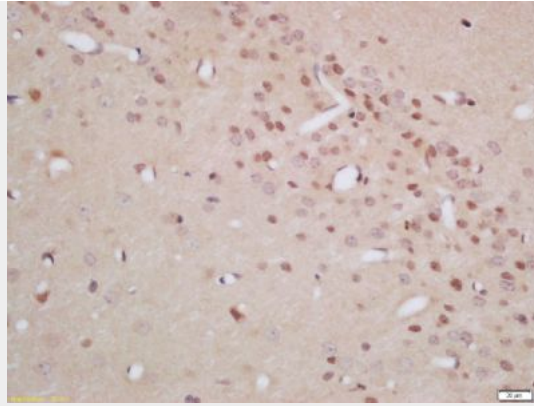
CRBN Polyclonal Antibody - Images



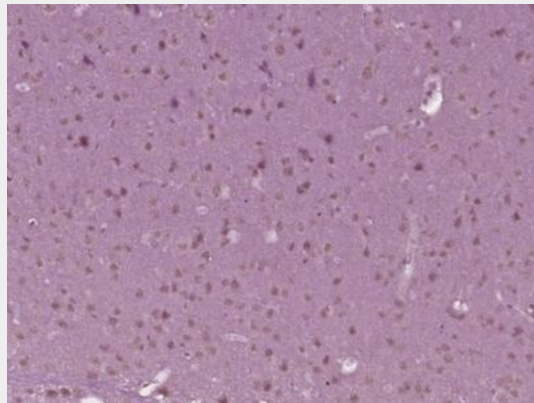
Tissue/cell: rat testis tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-CRBN Polyclonal Antibody, Unconjugated(bs-11716R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-CRBN Polyclonal Antibody, Unconjugated(bs-11716R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CRBN) Polyclonal Antibody, Unconjugated (bs-11716R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.