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Product datasheet for TA349147

CRBN Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	CRBN antibody can be used for detection of CRBN by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in rat samples and Immunofluorescence in rat samples. All other applications and species not yet tested.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	CRBN antibody was raised against a 16 amino acid peptide near the carboxy terminus of human CRBN.
Specificity:	CRBN antibody is human, mouse and rat reactive. At least two isoforms of CRBN are known to exist; this antibody will detect both isoforms.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	CRBN antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 49 kDa; Observed: 54 kDa
Gene Name:	cereblon
Database Link:	NP_057386 Entrez Gene 51185 Human Q96SW2

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Background: CRBN, a member of the Lon protease protein family, plays a role in brain development (1). It is a component of the 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 (2). CRBN is thought to regulate 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. It is widely expressed and highly expressed in brain (3,4).

Synonyms: GP91-3; MOX-2