

Store at  
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#71810**CRBN (D8H3S) Rabbit mAb**

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<b>Applications:</b> W, W-S, IP, IHC-P	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 55	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q96SW2	<b>Entrez-Gene Id:</b> 51185
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**Product Usage Information****Application**

Western Blotting  
Simple Western™  
Immunoprecipitation  
Immunohistochemistry (Paraffin)

**Dilution**

1:1000  
1:10 - 1:50  
1:200  
1:50

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #46351.

**Specificity/Sensitivity**

CRBN (D8H3S) Rabbit mAb recognizes endogenous levels of total CRBN protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro44 of human CRBN protein.

**Background**

CRBN/Cereblon, a substrate receptor for the CRL4 E3 ubiquitin ligase, was originally identified for its role in autosomal recessive nonsyndromic mental retardation (1). CRBN's role in the regulation of the AMPK pathway has been linked to various human diseases, including cardiovascular disease and obesity, and its involvement in proteasomal degradation may be important in neuropsychiatric diseases (2). CRBN has also been shown to enhance the effects of immunomodulatory drugs (IMiDs) in multiple myeloma, and may be a predictive marker for therapy (2-4).

**Background References**

- Higgins, J.J. et al. (2004) *Neurology* 63, 1927-31.
- Shi, Q. and Chen, L. (2017) *J Immunol Res* 2017, 9130608.
- Ito, T. and Handa, H. (2016) *Int J Hematol* 104, 293-9.
- Chang, X. et al. (2017) *Int J Mol Sci* 18, 1999. doi: 10.3390/ijms18091999.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **W-S:** Simple Western™ **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)

**Cross-Reactivity Key**

**H:** Human **M:** Mouse **R:** Rat

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