

Product Datasheet

CRBN Antibody - BSA Free

NBP1-91810

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-91810

CRBN Antibody - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description

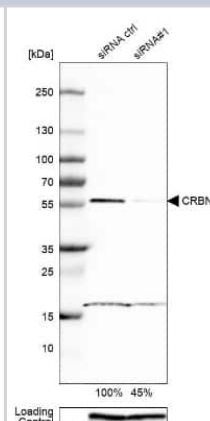
Host	Rabbit
Gene ID	51185
Gene Symbol	CRBN
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: EVEDQDSKEAKKPNIINFDTSLPTSHTYLGADMEEFHGRTLHDDDDSCQVIPVLP QVMMLIPGQTLPLQLFHPQEVSVMVRNLIQKDRTFAVLAYSINVQERE

Product Application Details

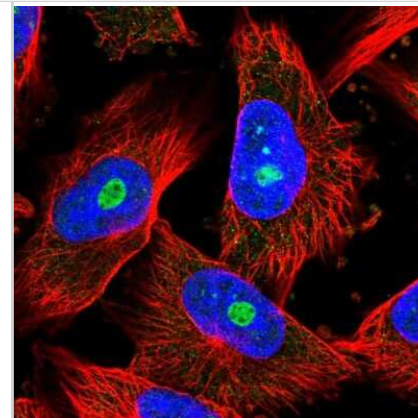
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Knockdown Validated, Knockout Validated, Single Cell Western
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western 1:60, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Knockout Validated Validation (PMID: 31371704)., Single Cell Western, Knockdown Validated
Application Notes	ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in RT4, U-251MG, separated by Size, antibody dilution of 1:60, apparent MW was 60 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

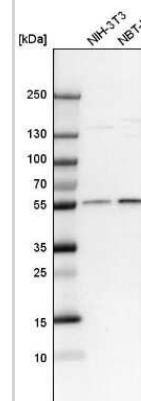
Western Blot: CRBN Antibody [NBP1-91810] - Analysis in HEK293 cells transfected with control siRNA, target specific siRNA probe #1,. Remaining relative intensity is presented. Loading control: Anti-GAPDH.



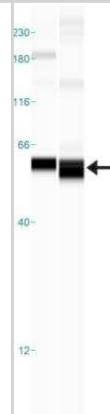
Immunocytochemistry/Immunofluorescence: CRBN Antibody [NBP1-91810] - Staining of human cell line U-251 MG shows localization to nucleoli. Antibody staining is shown in green.



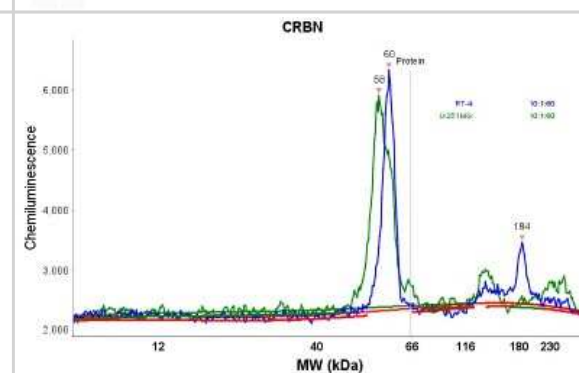
Western Blot: CRBN Antibody [NBP1-91810] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



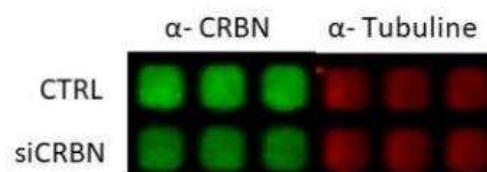
Simple Western: CRBN Antibody [NBP1-91810] - Simple Western lane view shows a specific band for CRBN in 0.2 mg/ml of RT4 (left), U-251MG (right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



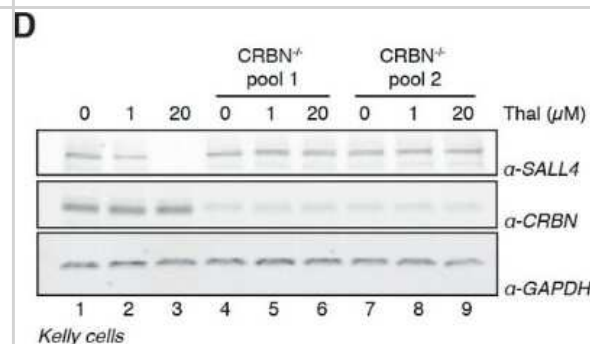
Simple Western: CRBN Antibody [NBP1-91810] - Electropherogram image(s) of corresponding Simple Western lane view. CRBN antibody was used at 1:60 dilution on RT4 and U-251MG lysate(s).



Single Cell Western: CRBN Antibody [NBP1-91810] - CRBN expression after Downregulation by siRNA, dilution 1:500. Single Cell Western Image submitted by verified customer review.



Western Blot: CRBN Antibody [NBP1-91810] - Validation of SALL4 as a bona fide IMiD-dependent CRL4CRBN substrate. Parental Kelly cells or two independent pools of CRBN^{-/-} Kelly cells were treated with increasing concentrations of thalidomide. Following 24 h incubation, SALL4, CRBN, and GAPDH protein levels were assessed by western blot analysis. Thalidomide promotes degradation of SALL4, a transcription factor implicated in Duane Radial Ray syndrome. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30067223/>) licensed under a CC-BY license.



Publications

Soohyun Lee, Hwa-Ryeon Kim, Yaejin Woo, Jiyoung Kim, Han Wool Kim, Ji Youn Park, Beomseon Suh, Yuri Choi, Jungmin Ahn, Je Ho Ryu, Jae-Seok Roe, Jaewhan Song, Song Hee Lee UBX-390: A Novel Androgen Receptor Degradator for Therapeutic Intervention in Prostate Cancer. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany) 2024-07-03 [PMID: 38958553]

Jiang B, Weinstock DM, Donovan KA et al. ITK degradation to block T cell receptor signaling and overcome therapeutic resistance in T cell lymphomas *Cell chemical biology* 2023-04-20 [PMID: 37015223] (WB, Mouse)

Wu X, Yang X, Xiong Y et al. Distinct CDK6 complexes determine tumor cell response to CDK4/6 inhibitors and degraders *Nat Cancer* 2021-09-27 [PMID: 34568836]

Mehta S, Buyanbat A, Kai Y et al. Temporal resolution of gene derepression and proteome changes upon PROTAC-mediated degradation of BCL11A protein in erythroid cells *Cell chemical biology* 2022-07-12 [PMID: 35839780] (WB, Human)

Shen C, Nayak A, Neitzel L et al. The Casein kinase 1alpha agonist pyvinium attenuates Wnt-mediated CK1alpha degradation via interaction with the E3 ubiquitin ligase component Cereblon *Journal of Biological Chemistry* 2022-07-01 [PMID: 35780831] (WB, Human)

Mori T, Verma R, Nakamoto-Matsubara R et al. Low NCOR2 levels in multiple myeloma patients drive multidrug resistance via MYC upregulation *Blood cancer journal* 2021-12-04 [PMID: 34864816] (WB, Human)

Yamamoto T, Nakayama J, Yamamoto Y et al. SORT1/LAMP2-mediated Extracellular Vesicle Secretion and Cell Adhesion Are Linked to Lenalidomide Resistance in Multiple Myeloma *Blood advances* 2022-01-03 [PMID: 34979567] (WB)

Misiewicz-Krzeminska, I, de Ramon, C Et al. Quantitative expression of Ikaros, IRF4, and PSMD10 proteins predicts survival in VRD-treated patients with multiple myeloma. *Blood Adv* 2020-12-08 [PMID: 33284947] (Simple Western, Human)

Shen C, Nayak A, Neitzel LR et al. The E3 ubiquitin ligase component, Cereblon, is an evolutionarily conserved regulator of Wnt signaling *Nature communications* 2021-09-06 [PMID: 34489457] (WB, Human)

Powell C, Du G, Bushman J Et Al. Selective degradation-inducing probes for studying cereblon (CRBN) biology *RSC Medicinal Chemistry* 2021-07-06 [PMID: 34458741]

Sievers Q L, Petzold G et al. Defining the human C2H2 zinc finger degrome targeted by thalidomide analogs through CRBN. *Science* 2018-02-11 [PMID: 30385546] (WB, Human)

Powell CE, Du G, Che J et al. Selective Degradation of GSPT1 by Cereblon Modulators Identified via a Focused Combinatorial Library *ACS Chem. Biol.* 2020-09-28 [PMID: 32865967]

More publications at <http://www.novusbio.com/NBP1-91810>





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Products Related to NBP1-91810

NBP1-91810PEP	CRBN Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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