Product Datasheet

CDR2 Antibody - BSA Free
NB110-58345

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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Publications: 1

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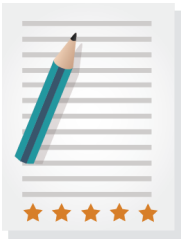
Updated 2/21/2025 v.20.1



NB110-58345

CDR2 Antibody - BSA Free

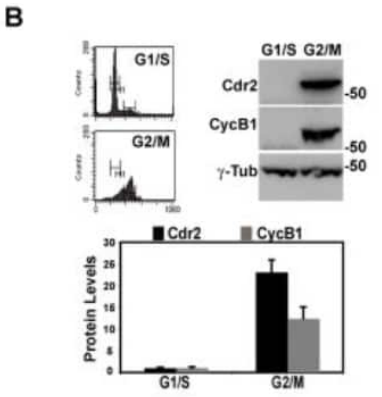
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
Target Molecular Weight	51 kDa

Product Description	
Host	Rabbit
Gene ID	1039
Gene Symbol	CDR2
Species	Human, Mouse, Bovine, Primate
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: rat (85%).
Immunogen	A synthetic peptide made to a C-terminal region of human CDR2 [Swiss-Prot# Q01850]

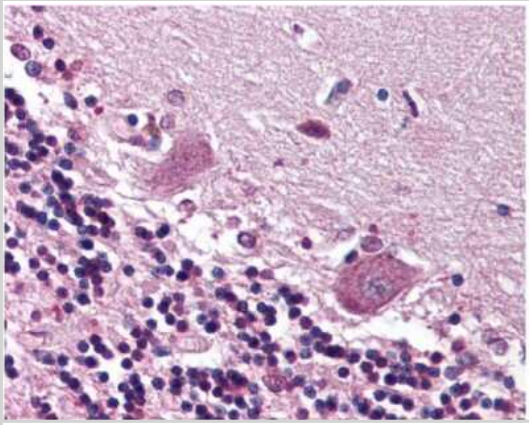
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 2 ug/ml, Flow Cytometry reported by customer review, Immunohistochemistry 5-10 ug/ml, Immunocytochemistry/ Immunofluorescence reported in scientific literature, Immunohistochemistry-Paraffin 5-10 ug/ml
Application Notes	In Western blot, a band is seen at ~51 kDa. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

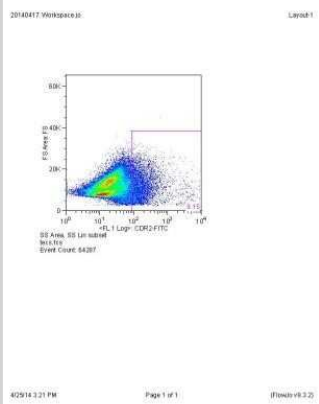
Western Blot: CDR2 Antibody [NB110-58345] - Cdr2 expressed during mitosis, ubiquitinated and degraded during mitotic exit. Upper left, flow cytometry of G1/S- and G2/M-arrested HEK293s. Upper right, western blots of HEK293 G1/S and G2/M extracts probed with anti-cdr2 (NB110; top), cyclinB1 (middle) and gamma-tubulin (bottom). Bottom panel, cdr2 and cyclin B1 protein quantitation, normalized here and in D to gamma--tubulin levels; *p<0.001. Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0010045), licensed under a CC-BY license.



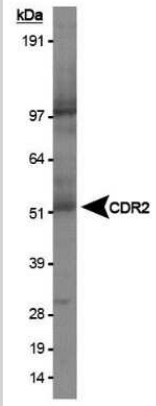
Immunohistochemistry: CDR2 Antibody [NB110-58345] - Purkinje neurons of the cerebellum.



Flow Cytometry: CDR2 Antibody [NB110-58345] - Analysis using the DyLight 488 conjugate of NB110-58345. Thymus epithelial cells CDR2. Image from verified customer review.



Western Blot: CDR2 Antibody [NB110-58345] - Analysis of CDR2 antibody on HeLa whole cell.



Publications

O'Donovan KJ, Diedler J, Couture GC et al. The onconeural antigen cdr2 is a novel APC/C target that acts in mitosis to regulate c-myc target genes in mammalian tumor cells. PLoS One;5(4). 2010-04-07 [PMID: 20383333] (ICC/IF, WB, Human)

Procedures

Western Blot protocol for CDR2 Antibody (NB110-58345)
CDR2 Antibody:
Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH2O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% non-fat dry milk + 1% BSA in TBS, 1 hour at room temperature.
6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-CDR2 primary antibody (NB 110-58345) in blocking buffer and incubate 2 hours at room temperature.
8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce, ECL).

Note: Tween-20 can be added to the blocking or antibody diultion buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

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Products Related to NB110-58345

NB800-PC1	HeLa Whole Cell Lysate
NB110-58345PEP	CDR2 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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