

Product Datasheet

Carm1 Antibody - BSA Free

NB200-342

Unit Size: 100 ul

Store at 4C. Do not freeze.

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Publications: 8

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NB200-342

Carm1 Antibody - BSA Free

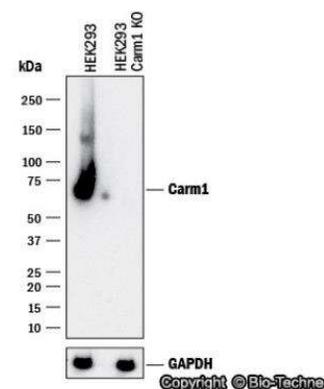
Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description	
Description	Novus Biologicals Rabbit Carm1 Antibody - BSA Free (NB200-342) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-Carm1 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	10498
Gene Symbol	CARM1
Species	Human, Mouse
Immunogen	A synthetic peptide that maps to a region between residues 550 and the C-terminus (residue 585) of human Coactivator-Associated Arginine Methyltransferase 1 using the numbering given in Swiss-Prot entry Q86X55 (GeneID 10498).

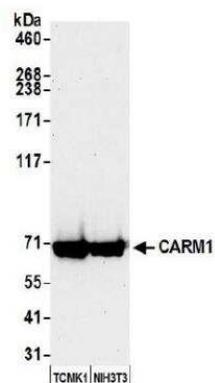
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:10000 - 1:25000, Immunohistochemistry 1:500 - 1:2000, Immunoprecipitation 2 - 10 ug/mg lysate, Immunohistochemistry-Paraffin 1:500 - 1:2000, Knockdown Validated 1:5000
Application Notes	Optimal working dilutions should be determined experimentally by the investigator. In some cases, the antibody may be diluted further than indicated. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.

Images

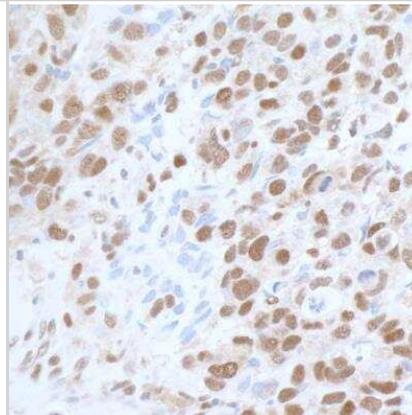
Western Blot: Carm1 Antibody [NB200-342] - Western blot shows lysates of HEK293T human embryonic kidney parental cell line and Carm1 knockout (KO) HEK293T cell line. PVDF membrane was probed with 1:5000 ug/ml of Rabbit Anti-Human Carm1 Polyclonal Antibody (Catalog # NB200-342) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog #HAF008). Specific band was detected for Carm1 at approximately 65 kDa (as indicated) in the parental HEK293T cell line, but is not detectable in the knockout HEK293T cell line. This experiment was conducted under reducing conditions.



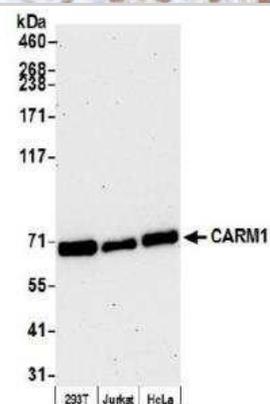
Western Blot: Carm1 Antibody [NB200-342] - Whole cell lysate (50 ug) from TCMK-1 and NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-CARM1 antibody used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



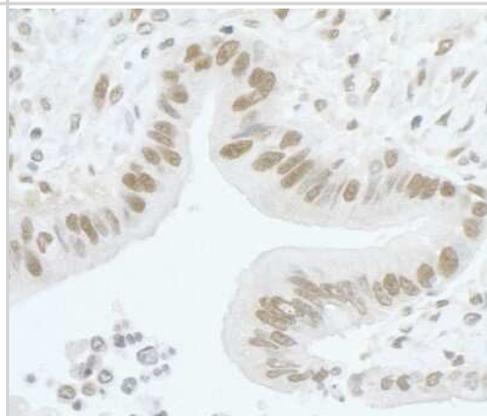
Immunohistochemistry-Paraffin: Carm1 Antibody [NB200-342] - Detection of human CARM1 by immunohistochemistry. Sample: FFPE section of human breast carcinoma. Antibody: Affinity purified rabbit anti-CARM1 (Cat. No. A300-421A lot 4) used at 1:1,000 (1ug/ml). Detection: DAB



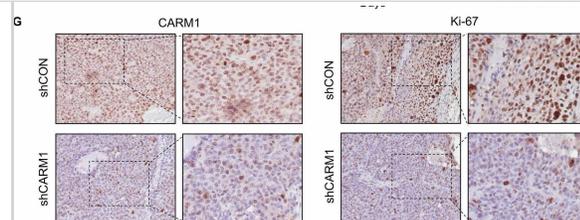
Western Blot: Carm1 Antibody [NB200-342] - Whole cell lysate (10 ug) from HEK293T, Jurkat, and HeLa cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-CARM1 antibody used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 75 seconds.



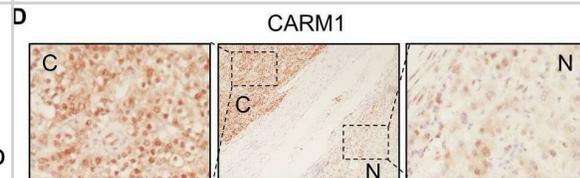
Immunohistochemistry-Paraffin: Carm1 Antibody [NB200-342] - Section of human stomach carcinoma. Antibody: Affinity purified rabbit anti-used at a dilution of 1:1,000 (1ug/ml). Detection: DAB



CARM1 promotes the proliferation of HCC cells. A Western blotting analysis showed the knockdown efficacy of CARM1 in Huh7 and PLC/PRF/5 cells infected with lentiviral particles expressing shRNAs targeting CARM1. B Proliferation of control and CARM1-knockdown Huh7 cells was detected by CCK-8 assays on the indicated days. C Colony formation assays were performed to detect the proliferation of control and CARM1-knockdown HCC cells. The data are presented in a bar chart. D Control or CARM1-knockdown Huh7 cells were subcutaneously injected into nude mice for observation of tumor growth. E The tumor volume was measured every three days and is presented as a line graph. F The tumor weights of the xenografts from the different groups were calculated. G Immunohistochemical analysis of mouse subcutaneous tumors was performed with anti-CARM1 and anti-Ki-67 antibodies. (n = 3; *p < 0.05, **p < 0.01, and ***p < 0.001). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/40016178>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



CARM1 is a downstream effector of PSMD14 that affects the prognosis of HCC patients. A CARM1 was transfected into HCC cells with PSMD14 knockdown. A CCK-8 assay was performed to detect proliferation. B CARM1 was transfected into HCC cells with PSMD14 knockdown. Then, a colony formation assay was conducted. C CARM1 was transfected into HCC cells with PSMD14 knockdown. Then, a transwell assay was performed to detect migration and invasion. Representative images of the transwell assay are shown. The cells in five randomly selected fields were counted under a microscope. D Representative images of immunohistochemical staining of PSMD14 and CARM1 in the same HCC and corresponding adjacent normal liver tissues are shown. E Correlation analysis of PSMD14 and CARM1 in HCC tissues. The data were statistically analyzed by the Chi-square test. R indicates the Pearson correlation coefficient. F Scatter diagram showing a positive correlation between PSMD14 and CARM1 in HCC tissues by IHC. G Survival analysis of HCC patients was conducted using Kaplan-Meier plots and log-rank tests. The patients were categorized into high and low PSMD14 and CARM1 expression groups based on IHC staining. (n = 3; *p < 0.05, **p < 0.01, and ***p < 0.001). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/40016178>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Feng D, Gao J, Liu R et al. CARM1 drives triple-negative breast cancer progression by coordinating with HIF1A Protein & Cell 2024-10-01 [PMID: 38476024]

Li S, Cheng D et al. The Overexpression of CARM1 Promotes Human Osteosarcoma Cell Proliferation through the pGSK3 beta/beta-Catenin/cyclinD1 Signaling Pathway. Int J Biol Sci 2017-09-20 [PMID: 28924379] (WB, Human)

Li S, Cheng D, Zhu B, Yang Q. The Overexpression of CARM1 Promotes Human Osteosarcoma Cell Proliferation through the pGSK3B/B-Catenin/cyclinD1 Signaling Pathway Int J Mol Sci. 2017-07-18 [PMID: 27455247] (Human)

Ljubicic V, Khogali S, Renaud JM et al. Chronic AMPK stimulation attenuates adaptive signaling in dystrophic skeletal muscle. Am J Physiol Cell Physiol 2012-01-01 [PMID: 21940670]

Hubers L, Valderrama-Carvajal H, Laframboise J et al. HuD interacts with survival motor neuron protein and can rescue spinal muscular atrophy-like neuronal defects. Hum Mol Genet 2011-02-01 [PMID: 21088113]

Carascossa S, Dudek P, Cenni B et al. CARM1 mediates the ligand-independent and tamoxifen-resistant activation of the estrogen receptor alpha by cAMP. Genes Dev 2010-04-01 [PMID: 20360387]

Harrison MJ, Tang YH, Dowhan DH et al. Protein arginine methyltransferase 6 regulates multiple aspects of gene expression. Nucleic Acids Res 2010-04-01 [PMID: 20047962]

Dacwag CS, Bedford MT, Sif S et al. Distinct protein arginine methyltransferases promote ATP-dependent chromatin remodeling function at different stages of skeletal muscle differentiation. Mol Cell Biol 2009-04-01 [PMID: 19188441]





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Products Related to NB200-342

NB800-PC1	HeLa Whole Cell Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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