

Product Datasheet

CD44 Antibody - BSA Free NBP1-31488

Unit Size: 100 ul

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NBP1-31488

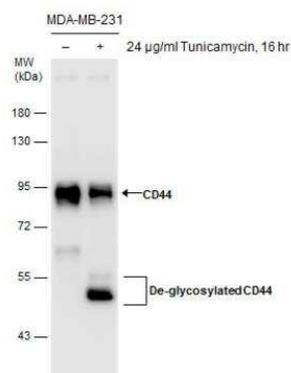
CD44 Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 20% Glycerol
Target Molecular Weight	82 kDa
Product Description	
Description	Novus Biologicals Knockout (KO) Validated Rabbit CD44 Antibody - BSA Free (NBP1-31488) is a polyclonal antibody validated for use in IHC, WB, ICC/IF, Simple Western and IP. Anti-CD44 Antibody: Cited in 12 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	960
Gene Symbol	CD44
Species	Human, Rat, Rabbit
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Canine (82%). Mouse reactivity reported in (PMID: 25362854).
Marker	Cell Membrane Marker
Immunogen	Recombinant protein encompassing a sequence within the center region of human CD44. The exact sequence is proprietary.
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, In vitro assay, Immunoprecipitation, Knockout Validated
Recommended Dilutions	Western Blot 1:1000-1:20000, Simple Western 1:200, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunoprecipitation Assay dependent, Immunohistochemistry-Paraffin 1:100-1:1000, Immunohistochemistry-Frozen Reported in scientific literature (PMID: 25362854), In vitro assay Reactivity reported in scientific literature (PMID: 32976824), Knockout Validated

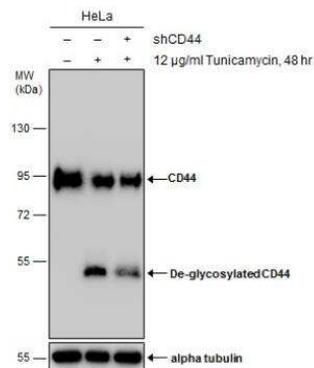


Images

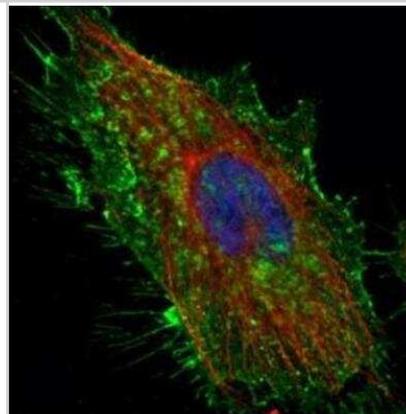
Western Blot: CD44 Antibody [NBP1-31488] - Untreated (-) and treated (+) MDA-MB-231 whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with CD44 antibody. The observed M.W. is different from the predicted size. It is possibly due to post-translational modifications.



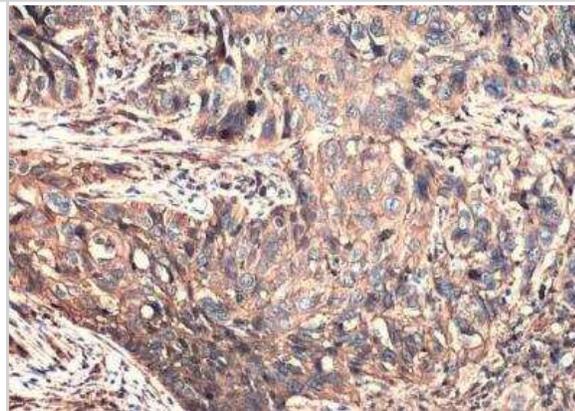
Western Blot: CD44 Antibody [NBP1-31488] - Untreated (-) and treated (+) HeLa whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with CD44 antibody. The observed M.W. is different from the predicted size. It is possibly due to post-translational modifications.



Immunocytochemistry/Immunofluorescence: CD44 Antibody [NBP1-31488] - Analysis of methanol-fixed HeLa, using CD44 antibody (Green) at 1:500 dilution. Alpha-tubulin filaments were labeled with an alpha Tubulin antibody (Red) at 1:2000.



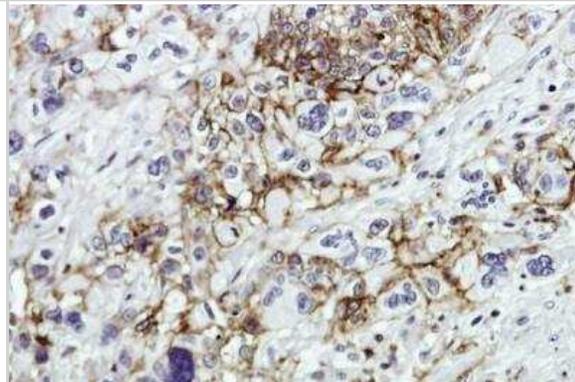
Immunohistochemistry-Paraffin: CD44 Antibody [NBP1-31488] - Human cervical carcinoma. CD44 stained by CD44 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



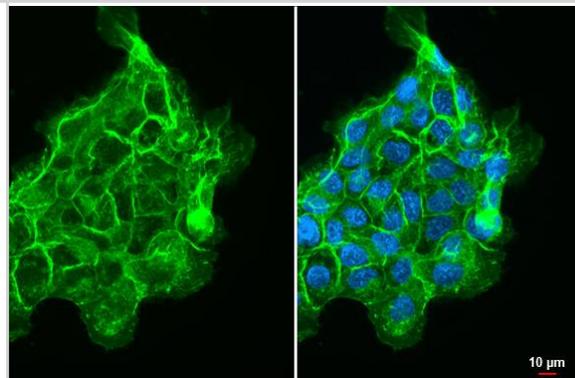
Immunohistochemistry-Paraffin: CD44 Antibody [NBP1-31488] - Human endometrial carcinoma. CD44 antibody diluted at 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



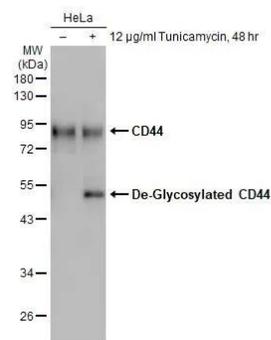
Immunohistochemistry-Paraffin: CD44 Antibody [NBP1-31488] - Human pancreatic tumor, using CD44 antibody at 1:100 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



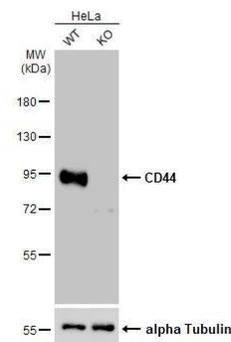
Immunocytochemistry/ Immunofluorescence: CD44 Antibody [NBP1-31488] - CD44 antibody detects CD44 protein at cell membrane by immunofluorescent analysis. Sample: A431 cells were fixed in ice-cold MeOH for 5 min. Green: CD44 stained by CD44 antibody (NBP1-31488) diluted at 1:500. Blue: Fluoroshield with DAPI .



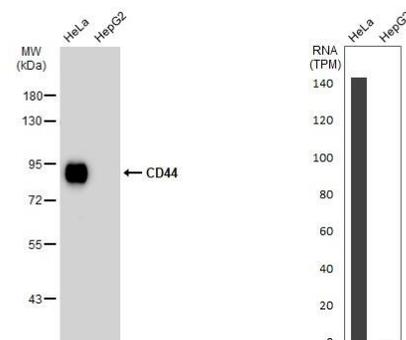
Western Blot: CD44 Antibody [NBP1-31488] - Untreated (-) and treated (+) HeLa whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with CD44 antibody (NBP1-31488) diluted at 1:45000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody, and the signal was developed with Trident ECL plus-Enhanced.



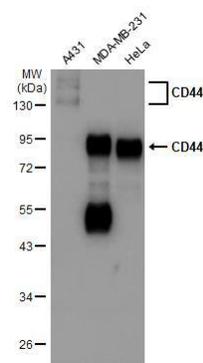
Western Blot: CD44 Antibody [NBP1-31488] - Non-transfected (-) and transfected (+) Wild-type (WT) and G CD44 knockout (KO) HeLa cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with CD44 antibody diluted at 1:7000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



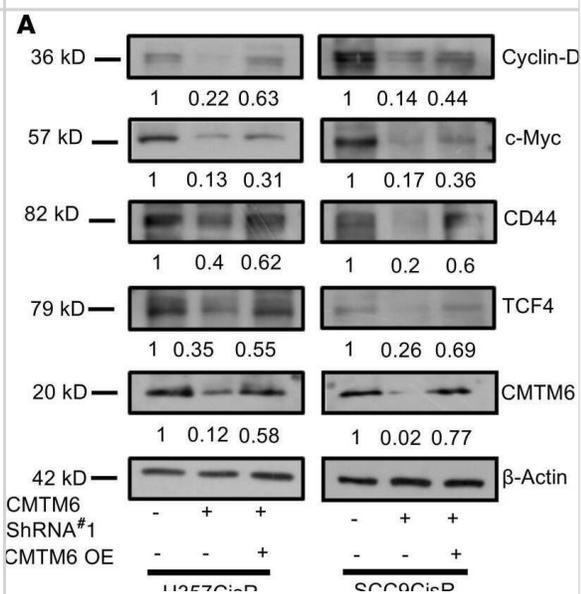
Western Blot: CD44 Antibody [NBP1-31488] - Various whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with CD44 antibody diluted at 1:5000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody. Corresponding RNA expression data for the same cell lines are based on Human Protein Atlas program.



Various whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with CD44 antibody (NBP1-31488) diluted at 1:5000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



CMTM6 regulates Wnt signaling via the ENO-1/AKT/GSK3 β / β -catenin axis. (A) CMTM6 was overexpressed in chemoresistant cells stably expressing NTShRNA or CMTM6ShRNA#2, and immunoblotting (n = 3) was performed with indicated antibodies. (B) Lysates were isolated from cisplatin-resistant lines stably transfected with NtSh and ENO1Sh and subjected to immunoblotting (n = 3) for indicated antibodies. (C) Myr AKT (constitutively active AKT) was overexpressed in chemoresistant cells stably expressing NTShRNA or CMTM6ShRNA#2, and immunoblotting (n = 3) was performed with indicated antibodies. (D) Lysates were isolated from LY294002-treated cells and vehicle control, and immunoblotting (n = 3) was performed using indicated antibodies. (E) mRNA was isolated from LY294002-treated cells and vehicle control, and relative mRNA (fold change) expression (n = 3) of indicated genes was analyzed by qRT-PCR in the indicated cell. Two-way ANOVA. (F) IHC of β -catenin and target genes in tumor of PDX model. Scale bar: 50 μ m. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33434185>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Yoon C, Lu J, Jun Y et al. KRAS activation in gastric cancer stem-like cells promotes tumor angiogenesis and metastasis *BMC cancer* 2023-07-22 [PMID: 37481516] (IHC-P, Human)

Yoon C, Lu J, Jun Y et al. KRAS activation in gastric cancer stem-like cells promotes tumor angiogenesis and metastasis *Research Square* 2022-12-06 (IHC-P, Mouse, Human)

Mohanty S, Mohapatra P, Shriwas O et al. CRISPR-based kinome-screening revealed MINK1 as a druggable player to rewire 5FU-resistance in OSCC through AKT/MDM2/p53 axis *bioRxiv* 2021-08-20 [PMID: 36182968]

Lubanska D, Alrashed S, Mason GT et al. Impairing proliferation of glioblastoma multiforme with CD44+ selective conjugated polymer nanoparticles *Scientific reports* 2022-07-15 [PMID: 35840697] (ICC/IF)

Kainulainen K, Takabe P, Heikkinen S et al. M1 macrophages induce pro-tumor inflammation in melanoma cells via TNFR-NF-kappa *The Journal of investigative dermatology* 2022-05-14 [PMID: 35580697] (ICC/IF, Human)

Patel U, Kannan S, Rane SU et al. Prognostic and predictive roles of cancer stem cell markers in head and neck squamous cell carcinoma patients receiving chemoradiotherapy with or without nimotuzumab *British journal of cancer* 2022-02-09 [PMID: 35140342] (IF/IHC, Human)

You, K, Parikh, P Et al. Moderate hyperoxia induces senescence in developing human lung fibroblasts. *Am J Physiol Lung Cell Mol Physiol* 2019-11-01 [PMID: 31411059] (IF/IHC, Mouse)

Lu J, Cao LL, Xu Y et al. FOXC1 modulates stem-like cell properties and chemoresistance through Hedgehog and EMT signaling in gastric adenocarcinoma *Molecular therapy : the journal of the American Society of Gene Therapy* 2021-09-14 [PMID: 34534693]

Mohapatra P, Shriwas O, Mohanty S, et al. CMTM6 drives cisplatin resistance by regulating Wnt signaling through ENO-1/AKT/GSK3 β axis *JCI insight* 2021-01-12 [PMID: 33434185] (IF/IHC, Human)

D'Ascola A, Scuruchi M, Ruggeri RM et al. Hyaluronan oligosaccharides modulate inflammatory response, NIS and thyroglobulin expression in human thyrocytes *Arch. Biochem. Biophys.* 2020-09-22 [PMID: 32976824] (WB, In vitro, Human)

Shriwas O, Priyadarshini M, Samal SK et al. DDX3 modulates cisplatin resistance in OSCC through ALKBH5-mediated m6A-demethylation of FOXM1 and NANOG *Apoptosis* 2020-01-23 [PMID: 31974865]

Alberton P, Dex S, Popov C et al. Loss of tenomodulin results in reduced self-renewal and augmented senescence of tendon stem/progenitor cells. *Stem Cells Dev.* 2014-10-28 [PMID: 25351164]

More publications at <http://www.novusbio.com/NBP1-31488>





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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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