

# Product Datasheet

## CD44 Antibody - BSA Free NBP1-31488

Unit Size: 100 ul

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

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 13

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP1-31488](http://www.novusbio.com/NBP1-31488)

Updated 2/21/2025 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP1-31488](http://www.novusbio.com/reviews/destination/NBP1-31488)



**NBP1-31488**

CD44 Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	100 ul
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.025% Proclin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	PBS, 20% Glycerol
<b>Target Molecular Weight</b>	82 kDa

**Product Description**

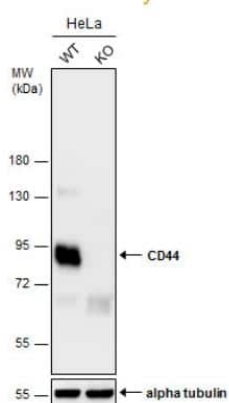
<b>Host</b>	Rabbit
<b>Gene ID</b>	960
<b>Gene Symbol</b>	CD44
<b>Species</b>	Human, Rat, Rabbit
<b>Reactivity Notes</b>	Immunogen displays the following percentage of sequence identity for non-tested species: Canine (82%). Mouse reactivity reported in (PMID: 25362854).
<b>Marker</b>	Cell Membrane Marker
<b>Immunogen</b>	Recombinant protein encompassing a sequence within the center region of human CD44. The exact sequence is proprietary.

**Product Application Details**

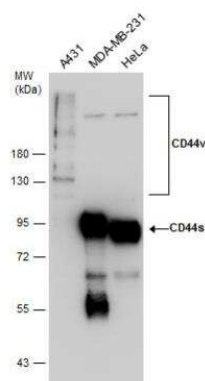
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, In vitro assay, Immunoprecipitation, Knockout Validated
<b>Recommended Dilutions</b>	Western Blot 1:1000-1:20000, Immunohistochemistry 1:100-1:1000, 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**

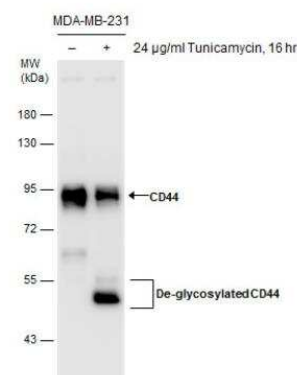
Western Blot: CD44 Antibody [NBP1-31488] - Wild-type (WT) and CD44 knockout (KO) HeLa cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with CD44 antibody.



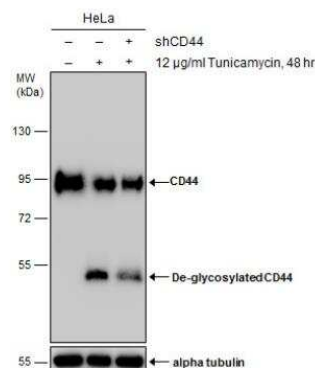
Western Blot: CD44 Antibody [NBP1-31488] - Various whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with CD44 antibody diluted at 1:7000. Multiple bands were observed 130-180 kDa. It is possibly due to alternative splicing.



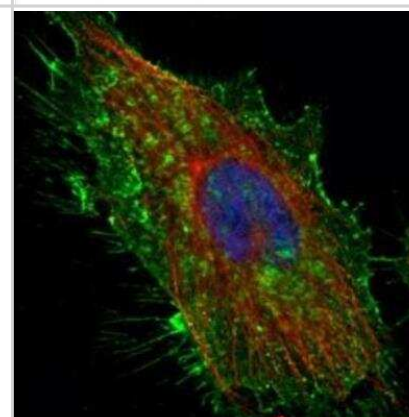
Western Blot: CD44 Antibody [NBP1-31488] - Untreated (-) and treated (+) MDA-MB-231 whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with CD44 antibody. The observed M.W. is different from the predicted size. It is possibly due to post-translational modifications.



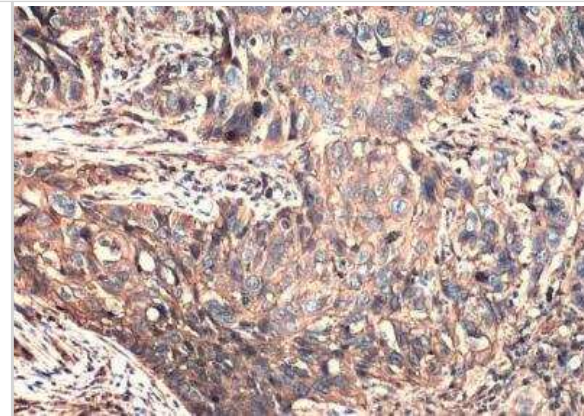
Western Blot: CD44 Antibody [NBP1-31488] - Untreated (-) and treated (+) HeLa whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with CD44 antibody. The observed M.W. is different from the predicted size. It is possibly due to post-translational modifications.



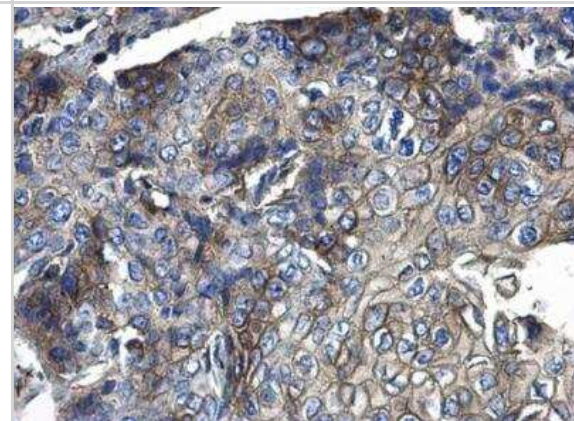
Immunocytochemistry/Immunofluorescence: CD44 Antibody [NBP1-31488] - Analysis of methanol-fixed HeLa, using CD44 antibody (Green) at 1:500 dilution. Alpha-tubulin filaments were labeled with an alpha Tubulin antibody (Red) at 1:2000.



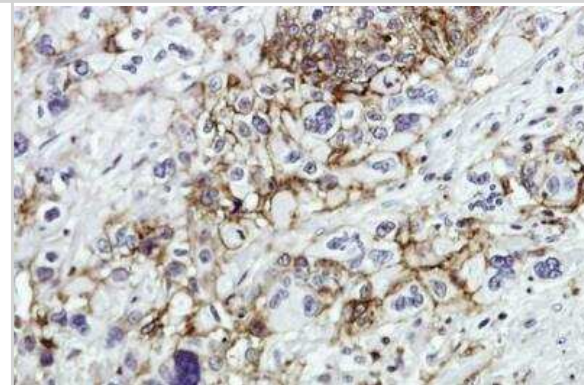
Immunohistochemistry-Paraffin: CD44 Antibody [NBP1-31488] - Human cervical carcinoma. CD44 stained by CD44 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



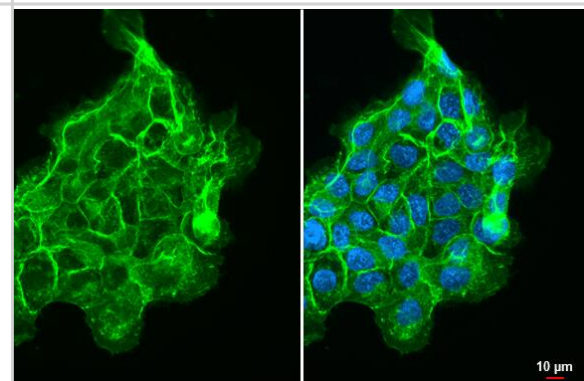
Immunohistochemistry-Paraffin: CD44 Antibody [NBP1-31488] - Human endometrial carcinoma. CD44 antibody diluted at 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



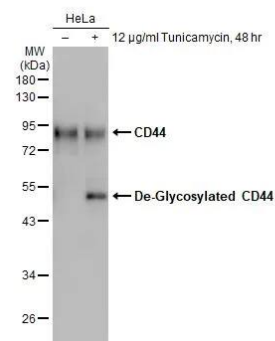
Immunohistochemistry-Paraffin: CD44 Antibody [NBP1-31488] - Human pancreatic tumor, using CD44 antibody at 1:100 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



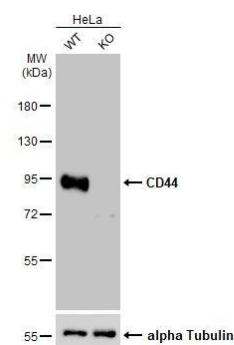
Immunocytochemistry/ Immunofluorescence: CD44 Antibody [NBP1-31488] - CD44 antibody detects CD44 protein at cell membrane by immunofluorescent analysis. Sample: A431 cells were fixed in ice-cold MeOH for 5 min. Green: CD44 stained by CD44 antibody (NBP1-31488) diluted at 1:500. Blue: Fluoroshield with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



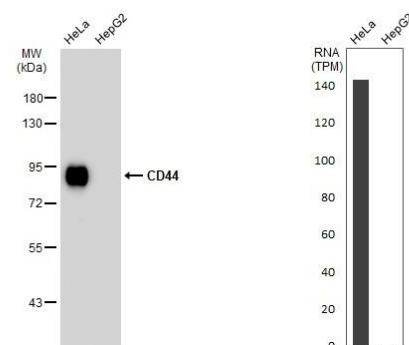
Western Blot: CD44 Antibody [NBP1-31488] - Untreated (-) and treated (+) HeLa whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with CD44 antibody (NBP1-31488) diluted at 1:45000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody,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





## 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 $\beta$  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>





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-  
techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

Error: Subreport could not be shown.

---

### **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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP1-31488](http://www.novusbio.com/reviews/submit/NBP1-31488)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

