

# Product Datasheet

## CD9 Antibody (5G6) NBP2-22187

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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**NBP2-22187**

CD9 Antibody (5G6)

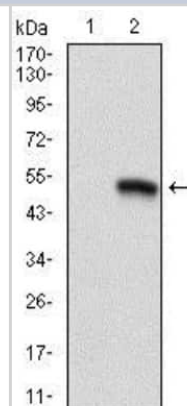
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	5G6
Preservative	0.03% Sodium Azide
Isotype	IgG1
Purity	Ascites
Buffer	Ascites
Target Molecular Weight	25 kDa

Product Description	
Description	Novus Biologicals Mouse CD9 Antibody (5G6) (NBP2-22187) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-CD9 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	928
Gene Symbol	CD9
Species	Human
Immunogen	Synthesized peptide of human CD9.

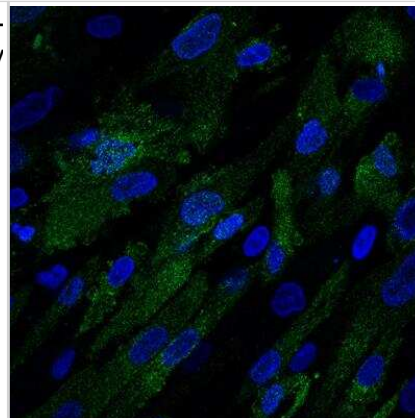
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:2000, Flow Cytometry 1:200-1:400, ELISA 1:10000, Immunohistochemistry 1:200-1:1000, Immunocytochemistry/ Immunofluorescence Validated from a verified customer review, Immunohistochemistry-Paraffin 1:200-1:1000

**Images**

Western Blot: CD9 Antibody (5G6) [NBP2-22187] - Analysis using CD9 mAb against HEK293 (1) and CD9(AA: 37-228)-hlgGfc transfected HEK293 (2) cell lysate.



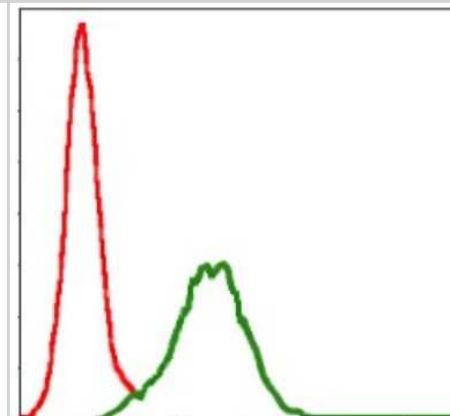
Immunocytochemistry/Immunofluorescence: CD9 Antibody (5G6) [NBP2-22187] - Human endometrial stromal cells stained with anti-CD9 antibody and detected with anti-mouse IgG AlexaFluor 488 secondary antibody (Green). Image submitted by a verified customer review.



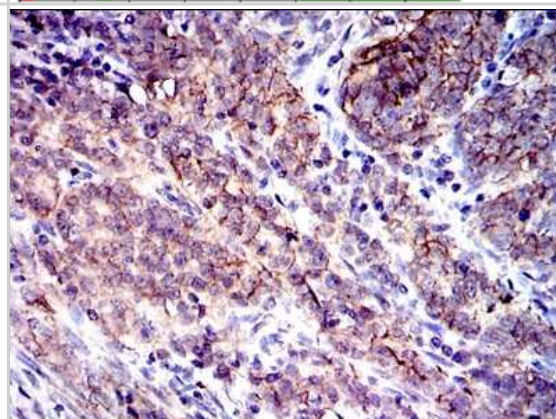
Immunohistochemistry-Paraffin: CD9 Antibody (5G6) [NBP2-22187] - Analysis of kidney cancer tissues using CD9 mouse mAb with DAB staining.



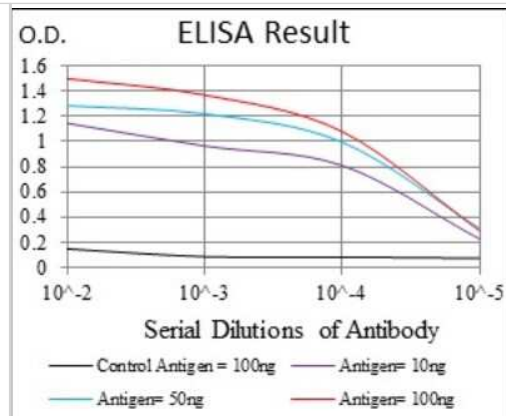
Flow Cytometry: CD9 Antibody (5G6) [NBP2-22187] - Analysis of Jurkat cells using CD9 mouse mAb (green) and negative control (red).



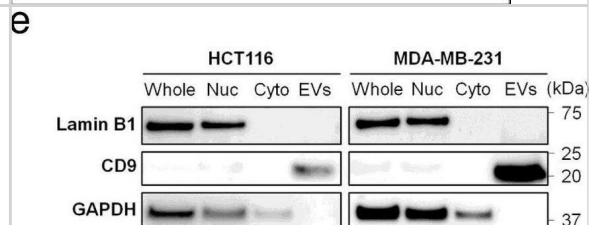
Immunohistochemistry-Paraffin: CD9 Antibody (5G6) [NBP2-22187] - Analysis of cervical cancer tissues using CD9 mouse mAb with DAB staining.



ELISA: CD9 Antibody (5G6) [NBP2-22187] - Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng)



EV and cellular fraction characterization. (a) Methodological workflow for this study. (b) Transmission Electron Microscopy (TEM) analysis of extracellular vesicles (EVs)-derived from HCT116 and MDA-MD-231 cell lines. (c) Particle size distribution of EV samples derived from HCT116 (top) and MDA-MB-231 (bottom) cell line. Mean size, mode size (the most frequent size), and standard deviation (SD) values of EV samples were determined by NanoSight Tracking Analysis (NTA). (d) Representative fluorescence images of EV samples derived from HCT116 (left side) and MDA-MB-231 (right side) cell line. EV samples were captured by specific antibody-coated chips against anti-CD9 (blue), anti-CD63 (red), and anti-CD81 (green) antibodies. (e) Western blot analysis of whole cell lysates (whole), nucleic fraction (nuc), cytoplasmic fraction (cyto), and EVs from HCT116 and MDA-MB-231 cell lines. The membranes were probed for Lamin B1 (nuclear marker), CD9 (EV marker), and GAPDH (loading control). (f) Electropherograms and virtual gel images showing the profiles of total genomic DNA, nuclear DNA (nDNA), cytoplasmic DNA (cytoDNA), and extracellular vesicle-derived DNA (evDNA) from HCT116 (left side) and MDA-MB-231 (right side) cell lines. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/39406948>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Zar M, Campodonico J, Cosentino N et al. Plasma Exosome Profile in ST-Elevation Myocardial Infarction Patients with and without Out-of-Hospital Cardiac Arrest International Journal of Molecular Sciences 2021-07-28 [PMID: 34360827] (Western Blot, Human)

Sheng-Mou Hou, Chih-Yang Lin, Yi-Chin Fong, Chih-Hsin Tang Hypoxia-regulated exosomes mediate M2 macrophage polarization and promote metastasis in chondrosarcoma Aging (Albany NY) 2023-11-30 [PMID: 37993261]

Kolka CM, Webster J, Lepletier A et al. C5b-9 Membrane Attack Complex Formation and Extracellular Vesicle Shedding in Barrett's Esophagus and Esophageal Adenocarcinoma Frontiers in immunology 2022-03-08 [PMID: 35345676] (IA, Human)

Choy P, Brown C, Amante J, Mercurio A Protocol for the separation of extracellular vesicles by ultracentrifugation from in vitro cell culture models STAR Protocols 2021-03-01 [PMID: 33554138]

Su C, Lai Y, Bamodu O et al. Cancer-Associated Fibroblasts Release Exosomal CFBF That Dictate an Aggressive Bone Metastasis Phenotype in Breast Cancer Research Square 2020-12-29 (WB, Human)

Choi H, Kim Y, Mirzaaghasi A et al. Exosome-based delivery of super-repressor I kappa B alpha relieves sepsis-associated organ damage and mortality Sci Adv 2020-04-01 [PMID: 32285005] (WB, Human)

Ren W, Hou J, Yang C et al. Extracellular vesicles secreted by hypoxia pre-challenged mesenchymal stem cells promote non-small cell lung cancer cell growth and mobility as well as macrophage M2 polarization via miR-21-5p delivery J. Exp. Clin. Cancer Res. 2019-02-08 [PMID: 30736829] (WB, Human)



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### Products Related to NBP2-22187

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### 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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