Product Datasheet

CD133 Antibody - BSA Free
NB120-16518SS

Unit Size: 0.025 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 44

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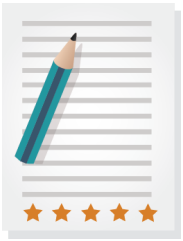
Updated 9/9/2025 v.20.1



NB120-16518SS

CD133 Antibody - BSA Free

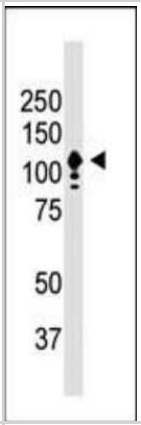
Product Information	
Unit Size	0.025 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rabbit CD133 Antibody - BSA Free (NB120-16518) is a polyclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF and ChIP. Anti-CD133 Antibody: Cited in 41 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	8842
Gene Symbol	PROM1
Species	Human, Mouse, Rat, Porcine
Reactivity Notes	porcine reactivity reported in scientific literature (PMID: 29352176).
Marker	Stem Cell Marker
Specificity/Sensitivity	CD133 - Hematopoietic Stem Cell Marker
Immunogen	Synthetic peptide corresponding to a C-terminal region of CD133 (within amino acids 750-865).

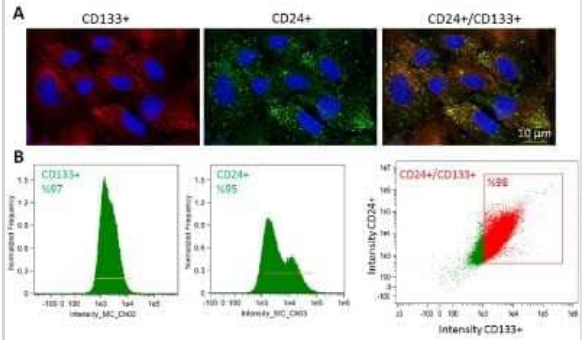
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:500-1:1000, Flow Cytometry 1:10-1:1000, ELISA 1:1000, Immunohistochemistry 1:100-1:250, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:100-1:250, Immunohistochemistry-Frozen, Chromatin Immunoprecipitation (ChIP)
Application Notes	Detects a band of approximately 120 kDa (predicted molecular weight: 97 kDa). IHC: Citrate buffer antigen retreival required. ICC/IF: Fix with 3% paraformaldehyde for 20 min at RT. Optimal dilutions/concentrations should be determined by the end user. Use in IHC-Frozen reported in scientific literature (PMID: 29352176).

Images

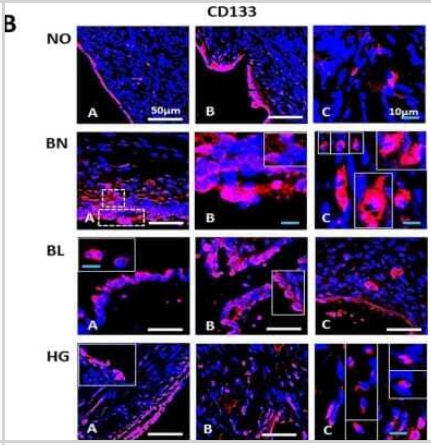
Western Blot: CD133 Antibody - BSA Free [NB120-16518] - Predicted band size : 97 kDa recognizes 97 kDa human CD133 in Y79 cells. Band is at ~120 kDa due to protein glycosylation.



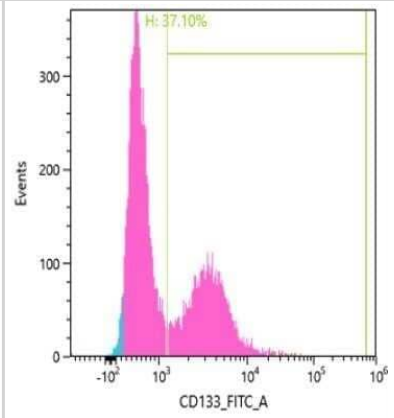
Immunocytochemistry/Immunofluorescence: CD133 Antibody - BSA Free [NB120-16518] - Characterization of Scattered tubular-like cells (STCs) isolated from pig kidneys. A) Representative immunofluorescence staining (original magnification 40X) for the STC surface markers CD133 NB120-16518G (red) and CD24 (green) in isolated swine STCs. B) Flow cytometry analysis of isolated STCs showing that 97% of cells expressed CD133, 95% CD24, and 98% were double-positive for CD133 and CD24 (n = 3 each). Image collected and cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31614781/) licensed under a CC-BY license.

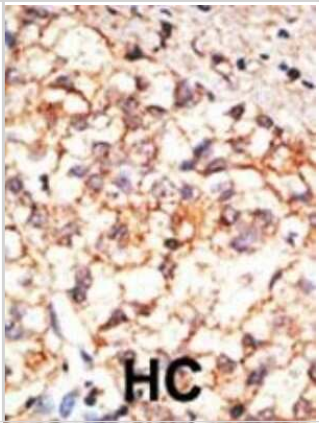


Immunohistochemistry: CD133 Antibody - BSA Free [NB120-16518] - Immunostaining for CD133 (NB120-16518) in normal ovarian and tumor tissue sections. Staining of CD133 in OSE layer (A, B) as well as cortex (C) reveals specific CD133+ cells with relatively higher cell numbers in BL and HG. Area within dotted lines in BN OSE (A) are magnified in (B) while elliptical/spindle shaped CD133+ cells in cortex from various fields were represented in the composite image in (C) of BN and HG. Large CD133+ cells in cortex were also observed. White scale bar?=?50 um; blue scale bar?=?10 um. Secondary antibody employed was conjugated with Alexa fluor 568 and tissue sections were counterstained with nucleus specific dye DAPI. Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/30121075/) licensed under a CC-BY license.



Flow Cytometry: CD133 Antibody - BSA Free [NB120-16518] - Flow Cytometry: CD133 Antibody [DyLight 488] [NB120-16518G] - Flow Cytometry: CD133 Antibody (DyLight488) [NB120-16518G] - Rat bone marrow cells were stained with CD133 (1:100) antibody (20 minutes at 4C), fixed, and then analyzed. Image using the DyLight 488 form of this antibody.



Chromatin Immunoprecipitation: CD133 Antibody - BSA Free [NB120-16518] - [NB 120-16518] - Staining CD133 in Bone Marrow Mononuclear Cells by Immunofluorescence.	
Immunohistochemistry-Paraffin: CD133 Antibody - BSA Free [NB120-16518] - Staining of CD133 in human hepatocarcinoma (HC) tissue. NB120-16518 was peroxidase-conjugated to the secondary antibody, followed by AEC staining.	

Publications

Witte KE, Pfitzenmaier J, Storm J et al. Analysis of Several Pathways for Efficient Killing of Prostate Cancer Stem Cells: A Central Role of NF-?B RELA International Journal of Molecular Sciences 2021-08-18 [PMID: 34445612] (Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Rat)

Iqbal F, Johnston A, Wyse B et al. Combination human umbilical cord perivascular and endothelial colony forming cell therapy for ischemic cardiac injury npj Regenerative Medicine 2023-08-25 [PMID: 37626067] (Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Rat)

Ma D, Hou L, Xia H et al. PER2 inhibits proliferation and stemness of glioma stem cells via the Wnt/??catenin signaling pathway Oncology Reports 2020-05-27 [PMID: 32468039] (Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Rat)

Witte KE, Hertel O, Windm□ller BA et al. Nanopore Sequencing Reveals Global Transcriptome Signatures of Mitochondrial and Ribosomal Gene Expressions in Various Human Cancer Stem-like Cell Populations Cancers (Basel) 2021-03-06 [PMID: 33800955] (Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Rat)

JSA Schulte Am, BA Windmöller, J Hanewinkel, J Storm, C Förster, L Wilkens, M Krüger, B Kaltschmid, C Kaltschmid Isolation and Characterization of Two Novel Colorectal Cancer Cell Lines, Containing a Subpopulation with Potential Stem-Like Properties: Treatment Options by MYC/NMYC Inhibition Cancers (Basel), 2020-09-10;12(9):. 2020-09-10 [PMID: 32927768] (Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Rat)

Balboni A, D'Angelo C, Collura N, Brusco S, Di Berardino C, Targa A, Massoti B, Mastrangelo E, Milani M, Seneci P, Broccoli V, Muzio L, Galli R, Menegon A. Acid-sensing ion channel 3 is a new potential therapeutic target for the control of glioblastoma cancer stem cells growth Sci Rep 2024-09-03 [PMID: 39227705]

Wei Q, Liu Z, Zhu J et Al. The Ubiquitin E3 Ligase FBXO33 Suppresses Stem Cell-Like Properties and Metastasis in Non-Small-Cell Lung Cancer by Promoting Ubiquitination and Degradation of Myc Front Biosci (Landmark Ed) 2024-08-29 [PMID: 39206900]

Filidou E, Kandilogiannakis L, Tarapatzi G et al. A Simplified and Effective Approach for the Isolation of Small Pluripotent Stem Cells Derived from Human Peripheral Blood Biomedicines 2023-03-05 [PMID: 36979766] (Immunocytochemistry/ Immunofluorescence, Human)

Wu MH, Wu K, Zhu YB et al. Baicalin Antagonizes Prostate Cancer Stemness via Inhibiting Notch1/NF-?B Signaling Pathway Chinese journal of integrative medicine 2023-06-26 [PMID: 37357241]

Tarek Niemann, Jonas Joneleit, Jonathan Storm, Tom Nacke, Dirk Wähnert, Christian Kaltschmidt, Thomas Vordemvenne, Barbara Kaltschmidt, Kin Hing William Lau, Tong-Chuan He Analyzing Sex-Specific Dimorphism in Human Skeletal Stem Cells Cells 2023-11-22 [PMID: 38067111]

Andreas M. Bapst, Thomas Knöpfel, Karen A. Nolan, Faik Imeri, Claus D. Schuh, Andrew M. Hall, Jia Guo, Dörthe M. Katschinski, Roland H. Wenger Neurogenic and pericytic plasticity of conditionally immortalized cells derived from renal erythropoietin□producing cells Journal of Cellular Physiology 2022-01-10 [PMID: 35014036]

Depanwita Saha, Debarpan Mitra, Neyaz Alam, Sagar Sen, Saunak Mitra Mustafi, Pradip K Majumder, Biswanath Majumder, Nabendu Murmu Lupeol and Paclitaxel cooperate in hindering hypoxia induced vasculogenic mimicry via suppression of HIF-1α-EphA2-Laminin-5γ2 network in human oral cancer. Journal of cell communication and signaling 2023-09-01 [PMID: 36063341]

More publications at http://www.novusbio.com/NB120-16518

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