

# Product Datasheet

## CD81 Antibody (1.3.3.22)

### NBP2-53318-100ug

Unit Size: 100 ug

Store at 4C.

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Updated 7/28/2024 v.20.1

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**NBP2-53318-100ug**

CD81 Antibody (1.3.3.22)

Product Information	
Unit Size	100 ug
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	1.3.3.22
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	26 kDa

Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-54548)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	975
Gene Symbol	CD81
Species	Human, Mouse, Rat
Specificity/Sensitivity	Recognizes a protein of 26kDa, identified as CD81 (Workshop VI; Code CD81.1)). CD81 has a very broad cellular distribution, being expressed on T- and B-lymphocytes, NK cells, thymocytes, eosinophils, fibroblasts, epithelial and endothelial cells. Neutrophils, erythrocytes and platelets are negative, while monocytes are variably positive. CD81 is a member of a family of tetraspans transmembrane proteins, including CD9, CD37, CD53, CD63, and CD82. It associates with CD19, CD21, Leu 13, and integrins on cell membrane and is involved in signal transduction in B lymphocyte development and cell adhesion. CD81 also acts as a receptor for the envelope protein E2 of chronic hepatitis C virus. Antibodies to CD81 have anti-proliferative effects on different lymphoid cell lines, particularly those derived from large cell lymphomas.
Immunogen	Recombinant full-length human CD81 protein (Uniprot: P60033)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockout Validated, Single Cell Western
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 2-4 ug/ml, Flow (Cell Surface), Knockout Validated, Single Cell Western 100 ug/ml

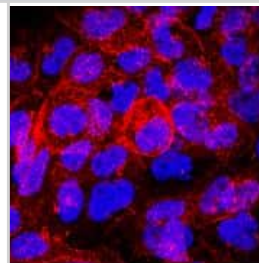


**Application Notes**

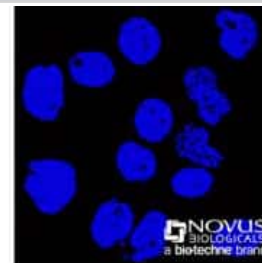
Immunohistochemistry (Formalin-fixed): 2-4ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.  
Western Blot: 1-2ug/ml for 2 hours at RT.

**Images**

Knockout Validated: CD81 Antibody (1.3.3.22) [NBP2-53318] - CD81 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line but is not detected in CD81 knockout (KO) HeLa cell line using Mouse Anti-Human CD81 Monoclonal Antibody (Catalog # NBP2-53318) at 1 ug/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to the plasma membrane.

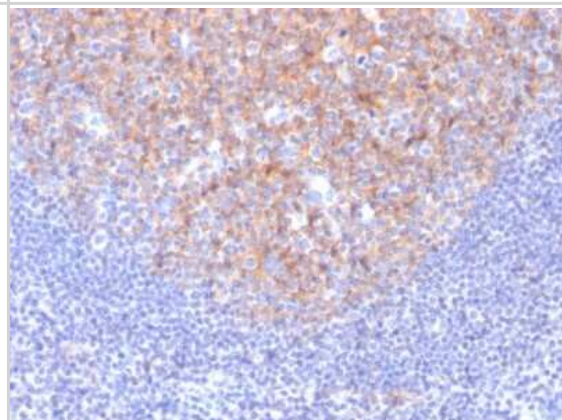


Positive (HeLa cells)

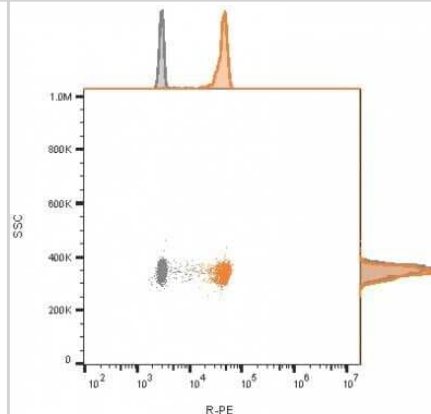


Negative (HeLa KO cells)

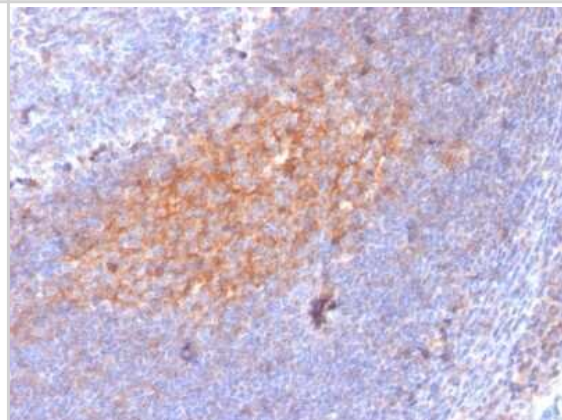
Immunohistochemistry-Paraffin: CD81 Antibody (1.3.3.22) [NBP2-53318] - Formalin-fixed, paraffin-embedded human Tonsil stained with CD81 Mouse Monoclonal Antibody (1.3.3.22).



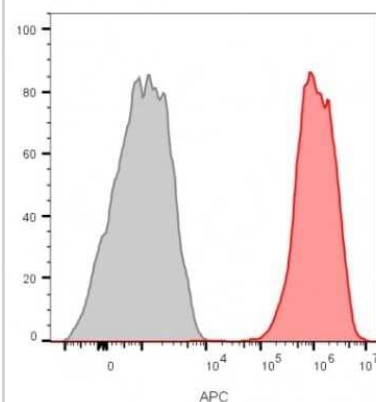
Flow Cytometry: CD81 Antibody (1.3.3.22) [NBP2-53318] - Flow cytometry analysis of bead-bound exosomes derived from MCF-7 cells. Unstained exosomes (gray) or exosomes stained with CF568-labeled CD81 monoclonal antibody (1.3.3.22) (orange).



Immunohistochemistry-Paraffin: CD81 Antibody (1.3.3.22) [NBP2-53318] - Formalin-fixed, paraffin-embedded human Lymph Node stained with CD81 Mouse Monoclonal Antibody (1.3.3.22).



Flow Cytometry: CD81 Antibody (1.3.3.22) [NBP2-53318] - Flow cytometry analysis of MCF-7 cells unstained (gray) or stained with CD81 mouse monoclonal antibody (1.3.3.22) and goat anti-mouse CF647 (red).



## Publications

Gandhi J, Joseph J Proteomic profiling of Extracellular Vesicles derived from ARPE-19 cells challenged with *Aspergillus flavus* and *Candida albicans*: application in fungal endophthalmitis *Pathogens and disease* 2022-10-27 [PMID: 36302135]

Liu T, Han C, Fang P et al. Cancer-associated fibroblast-specific lncRNA LINC01614 enhances glutamine uptake in lung adenocarcinoma *Journal of hematology & oncology* 2022-10-08 [PMID: 36209111]

Gandhi J, Naik MN, Mishra DK, Joseph J Proteomic profiling of aspergillus flavus endophthalmitis derived extracellular vesicles in an in-vivo murine model *Medical mycology* 2022-08-24 [PMID: 36002004]



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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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