

# Product Datasheet

## CD81 Antibody (1D6) - Azide and BSA Free NBP2-80660

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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**NBP2-80660**

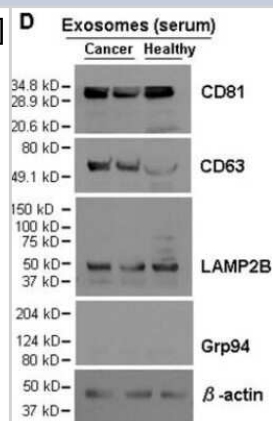
CD81 Antibody (1D6) - Azide and BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1D6
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Mouse CD81 Antibody (1D6) - Azide and BSA Free (NB100-65805) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	975
Gene Symbol	CD81
Species	Human, Mouse, Goat, Primate, Sheep
Reactivity Notes	Chimpanzee
Immunogen	Aggregated OCI-Ly8 human B cell line
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 1 - 2 ug/ml, Flow Cytometry 0.2 - 1 ug per million cells, ELISA, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence 1:10 - 1:100, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:100, CyTOF-ready
Application Notes	NB100-65805 is a potent TAPA1/CD81 reagent, it induces homotypic adhesion and has powerful anti-proliferative effects. For Flow Cytometry: Use 10 uL of the suggested working dilution to label 10 <sup>6</sup> cells in 100 uL. This antibody is CyTOF ready.

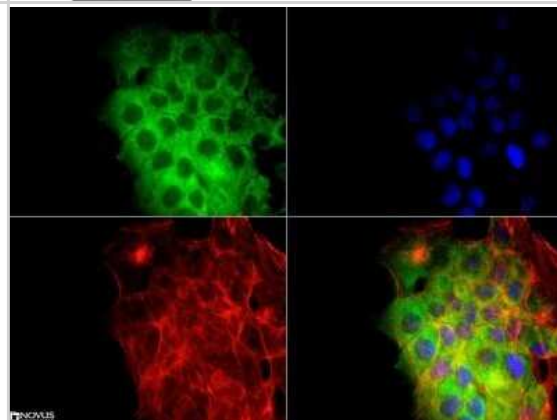


## Images

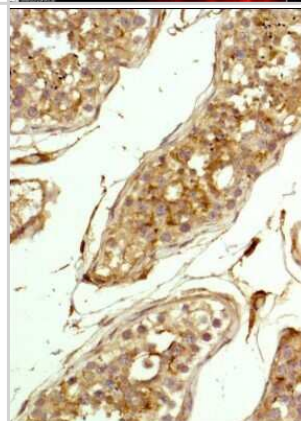
**Western Blot: CD81 Antibody (1D6) - Azide and BSA Free [NBP2-80660]**  
 - Isolation and characterization of exosomes from cell culture supernatant and human blood. Immunoblot of exosomal markers CD81 (~30 kDa), CD63 (~55 kDa), and LAMP2B (~50 kDa) in exosomes (5 ug lysates) isolated from the serum of breast cancer patients and healthy control. Grp94 (~100 kDa) and beta-actin (~42 kDa) serve as a negative control and a loading control, respectively. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/srep36502>), licensed under a CC-BY license. Image from the standard format of this antibody.



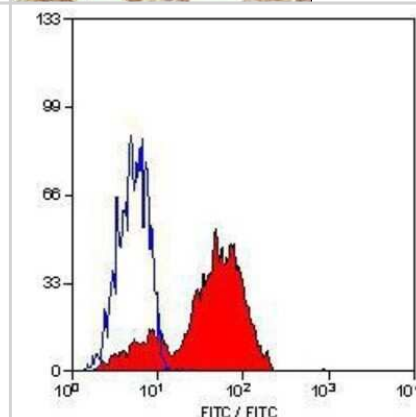
**Immunocytochemistry/Immunofluorescence: CD81 Antibody (1D6) - Azide and BSA Free [NBP2-80660]** - The TAPA1 Antibody (1D6) was tested in A431 cells at a 1:10 dilution against DyLight 488 (green). Actin was counterstained against Phalloidin 568 (red) and cells were mounted in DAPI Fluoromount (blue). Image from the standard format of this antibody.



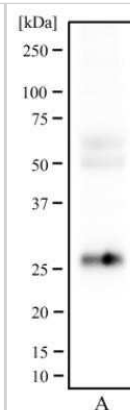
**Immunohistochemistry: CD81 Antibody (1D6) - Azide and BSA Free [NBP2-80660]** - Staining of TAPA1 in human testis using DAB with hematoxylin counterstain. Image from the standard format of this antibody.



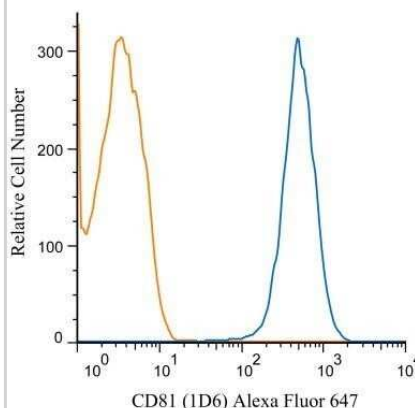
**Flow Cytometry: CD81 Antibody (1D6) - Azide and BSA Free [NBP2-80660]** - Staining of human peripheral blood lymphocytes. Image from the standard format of this antibody.



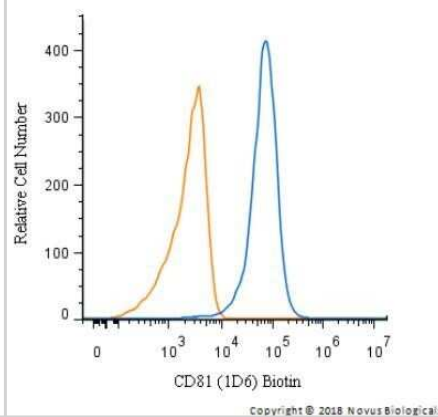
**Western Blot: CD81 Antibody (1D6) - Azide and BSA Free [NBP2-80660]** - Analysis of human testis tissue (A) using CD81 antibody at a concentration of 2 ug/mL. Image from the standard format of this antibody.



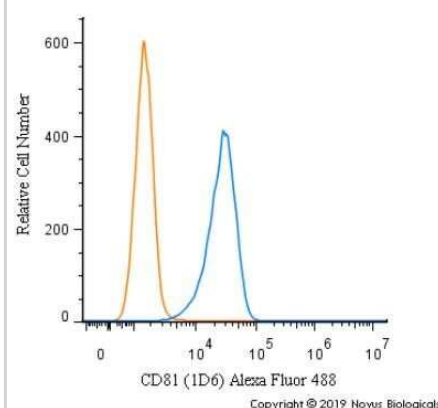
**Flow Cytometry: CD81 Antibody (1D6) - Azide and BSA Free [NBP2-80660]** - A surface stain was performed on Jurkat cells with CD81 (1D6) antibody NB100-65805AF647 (blue) and a matched isotype control NBP2-27287AF647 (orange). Cells were incubated in an antibody dilution of 2 ug/mL for 20 minutes at room temperature. Both antibodies were directly conjugated to Alexa Fluor 647.



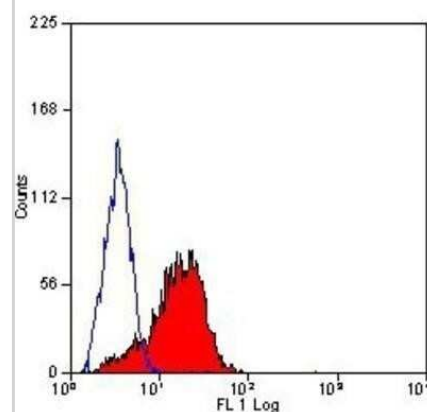
**Flow Cytometry: CD81 Antibody (1D6) - Azide and BSA Free [NBP2-80660]** - A surface stain was performed on Jurkat Cells with CD81 Antibody (1D6) NB100-65805B and a matched isotype control. Both antibodies were directly conjugated to biotin. Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature, followed by Streptavidin - R-Phycoerythrin Protein (2012-1000, Novus Biologicals).



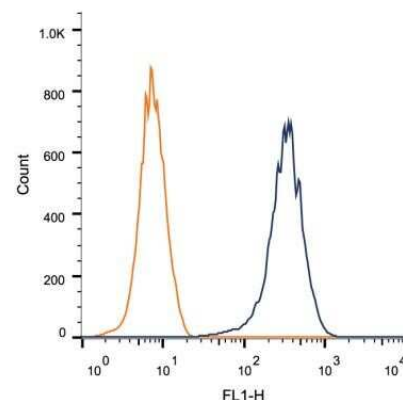
**Flow Cytometry: CD81 Antibody (1D6) - Azide and BSA Free [NBP2-80660]** - A surface stain was performed on Jurkat cells with CD81 Antibody [1D6] NB100-65805AF488 (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 5 ug/mL for 20 minutes at room temperature. Both antibodies were directly conjugated to Alexa Fluor 488.



Flow Cytometry: CD81 Antibody (1D6) - Azide and BSA Free [NBP2-80660] - Analysis using the FITC conjugate of NB100-65805. Staining of human peripheral blood lymphocytes.



Flow Cytometry: CD81 Antibody (1D6) - Azide and BSA Free [NBP2-80660] - Surface flow cytometric staining of  $1 \times 10^6$  PBMC cells using CD81 antibody (dark blue). Isotype control shown in orange. An antibody concentration of  $1 \mu\text{g}/1 \times 10^6$  cells was used. Image from the standard format of this antibody.





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### **Products Related to NBP2-80660**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-60215-50ug	Recombinant Human CD81 hIgG-His Protein

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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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