

Product Datasheet

CD38 Antibody (PD01-49)

NBP3-32151

Unit Size: 100 ul

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

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NBP3-32151

CD38 Antibody (PD01-49)

Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	PD01-49
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS (pH7.4), 0.1% BSA and 40% Glycerol
Target Molecular Weight	34 kDa

Product Description	
Description	Novus Biologicals Rabbit CD38 Antibody (PD01-49) (NBP3-32151) is a recombinant monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	952
Gene Symbol	CD38
Species	Human, Mouse, Rat
Immunogen	Synthetic peptide within human CD38 aa 250-300. (Uniprot: P28907)

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Multiplex Immunofluorescence
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50, Immunohistochemistry-Paraffin 1:1000, Multiplex Immunofluorescence
Application Notes	Recommended dilution for Multiplex IHC: 1:1000



Images

Western Blot: CD38 Antibody (PD01-49) [NBP3-32151] - Western blot analysis of CD38 on Daudi cell lysates with Rabbit anti-CD38 antibody (NBP3-32151) at 1/1,000 dilution.

Lysates/proteins at 10 ug/Lane.

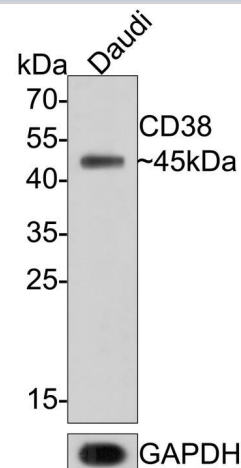
Predicted band size: 34 kDa

Observed band size: 45 kDa

Exposure time: 2 minutes;

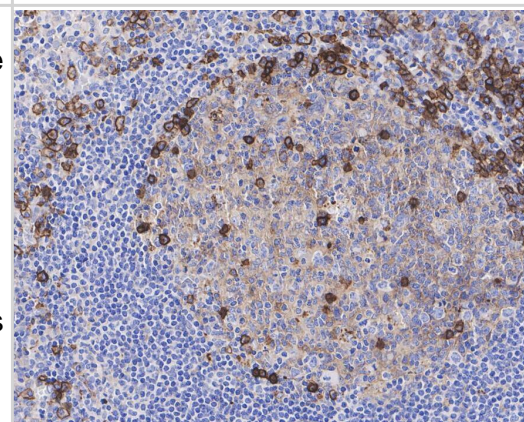
12% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (NBP3-32151) at 1/1,000 dilution was used in 5% NFDm/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:300,000 dilution was used for 1 hour at room temperature.



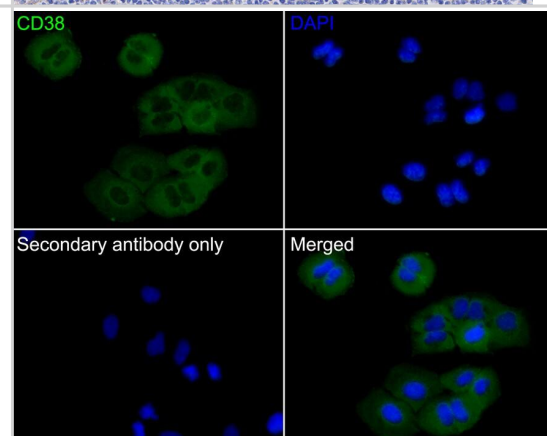
Immunohistochemistry: CD38 Antibody (PD01-49) [NBP3-32151] - Immunohistochemical analysis of paraffin-embedded human tonsil tissue with Rabbit anti-CD38 antibody (NBP3-32151) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (NBP3-32151) at 1/2,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



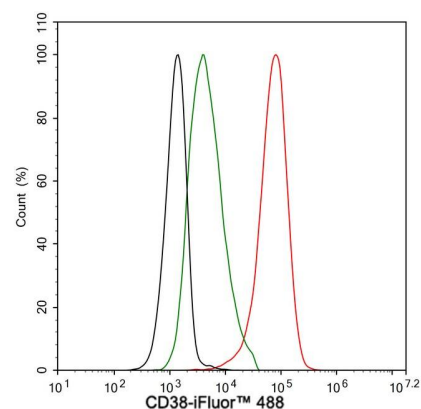
Immunocytochemistry/ Immunofluorescence: CD38 Antibody (PD01-49) [NBP3-32151] - Immunocytochemistry analysis of A549 cells labeling CD38 with Rabbit anti-CD38 antibody (NBP3-32151) at 1/50 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 °C, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-CD38 antibody (NBP3-32151) at 1/50 dilution in 2% negative goat serum overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.



Flow Cytometry: CD38 Antibody (PD01-49) [NBP3-32151] - Flow cytometric analysis of THP-1 cells labeling CD38.

Cells were washed twice with cold PBS and resuspend. Then stained with the primary antibody (NBP3-32151, 1 µg/mL) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at 4 °C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes at 4 °C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).





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Products Related to NBP3-32151

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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