

Product Datasheet

TROP-2 Antibody (A5E2-R)

NBP3-33058

Unit Size: 100 ul

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

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Updated 9/9/2025 v.20.1

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NBP3-33058**TROP-2 Antibody (A5E2-R)**

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	A5E2-R
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS (pH7.4), 0.1% BSA and 40% Glycerol
Target Molecular Weight	36 kDa

Product Description	
Description	Novus Biologicals Mouse TROP-2 Antibody (A5E2-R) (NBP3-33058) 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	Mouse
Gene ID	4070
Gene Symbol	TACSTD2
Species	Human
Immunogen	Recombinant protein within human TROP-2 aa 1-274 / 323 (Extracellular). (Uniprot: P09758)

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:2000

Images

Western Blot: TROP-2 Antibody (A5E2-R) [NBP3-33058] - Western blot analysis of TROP-2 on different lysates with Mouse anti-TROP-2 antibody (NBP3-33058) at 1/1,000 dilution.

Lane 1: MCF7 cell lysate

Lane 2: A431 cell lysate

Lysates/proteins at 20 ug/Lane.

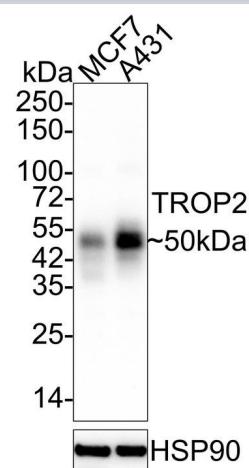
Predicted band size: 36 kDa

Observed band size: 50 kDa

Exposure time: 24 seconds;

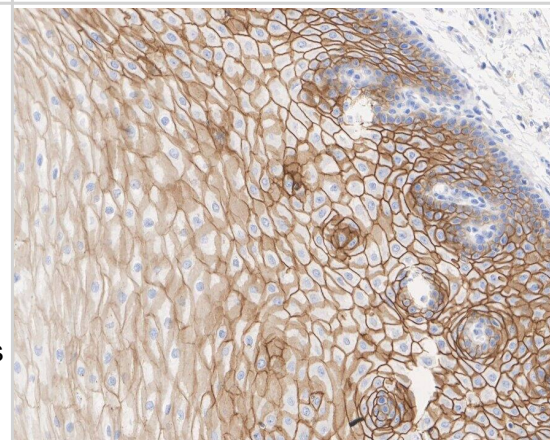
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (NBP3-33058) at 1/1,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.



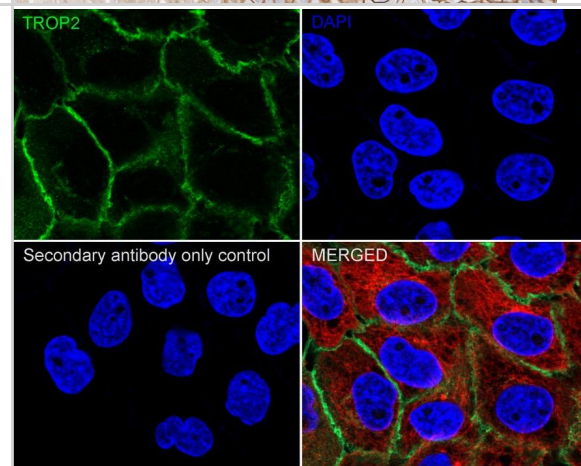
Immunohistochemistry: TROP-2 Antibody (A5E2-R) [NBP3-33058] - Immunohistochemical analysis of paraffin-embedded human esophagus tissue with Mouse anti-TROP-2 antibody (NBP3-33058) at 1/2,000 dilution.

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 (NBP3-33058) 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: TROP-2 Antibody (A5E2-R) [NBP3-33058] - Immunocytochemistry analysis of A431 cells labeling TROP-2 with Mouse anti-TROP-2 antibody (NBP3-33058) at 1/100 dilution.

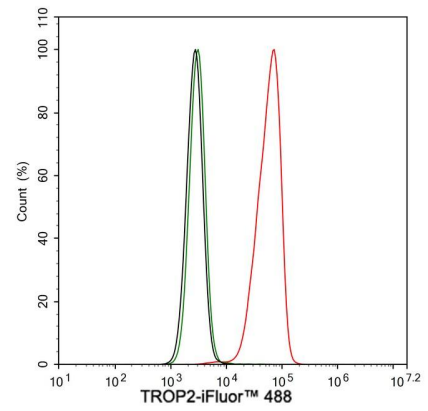
Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Mouse anti-TROP-2 antibody (NBP3-33058) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Mouse 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.



beta Tubulin (red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 594) were used as the secondary antibody at 1/1,000 dilution.

Flow Cytometry: TROP-2 Antibody (A5E2-R) [NBP3-33058] - Flow cytometric analysis of A431 cells labeling TROP-2.

Cells were washed twice with cold PBS and resuspend. Then stained with the primary antibody (NBP3-33058, 1 µg/mL) (red) compared with Mouse IgG1 Isotype Control (green). After incubation of the primary antibody at +4°C for 30 minutes, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Mouse 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 NBP3-33058

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)

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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