

Product Datasheet

Podoplanin Antibody (NZ-1.2) - BSA Free NBP2-03952

Unit Size: 0.1 mg

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

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Publications: 3

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NBP2-03952

Podoplanin Antibody (NZ-1.2) - BSA Free

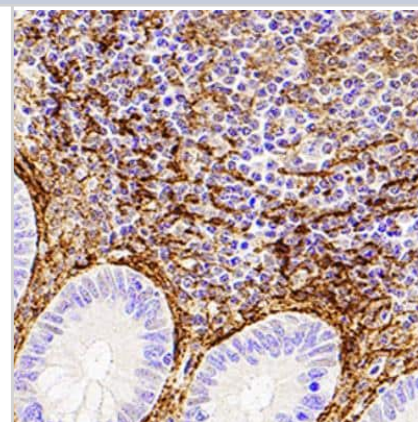
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	NZ-1.2
Preservative	0.02% Sodium Azide
Isotype	IgG2a Lambda
Purity	Protein G purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rat Podoplanin Antibody (NZ-1.2) - BSA Free (NBP2-03952) is a monoclonal antibody validated for use in IHC, WB and Flow. Anti-Podoplanin Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rat
Gene ID	10630
Gene Symbol	PDPN
Species	Human
Marker	Lymphatic Endothelium Marker
Immunogen	A synthetic peptide corresponding to amino acids 38-70 from the platelet-aggregation-stimulating (PLAG) domain of human podoplanin was used as immunogen.

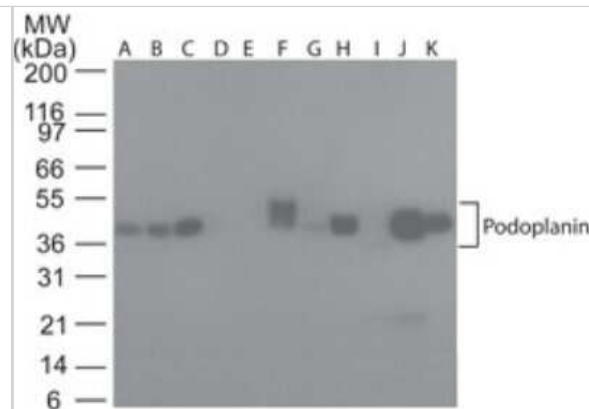
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 3-5 ug/ml, Flow Cytometry 0.2-1 ug/10 ⁶ cells, Immunohistochemistry, Immunohistochemistry-Paraffin 0.5-1ug / ml. Use reported in scientific literature (Kaji et al (2012); PMID 23012488), Immunohistochemistry-Frozen 0.5-1ug/ml. Use reported in scientific literature (Kaji et al (2012); PMID 23012488)

Images

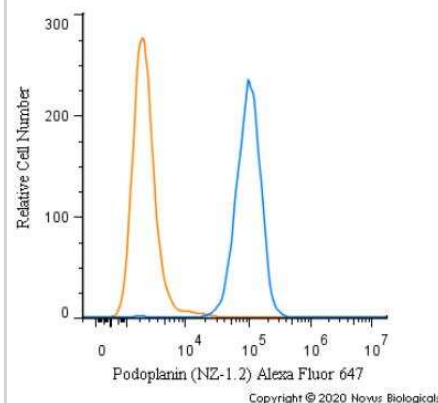
Immunohistochemistry-Paraffin: Podoplanin Antibody (NZ-1.2) [NBP2-03952] - Podoplanin (NZ-1.2) was detected in immersion fixed paraffin-embedded sections of human appendix using Rat Anti-Human Podoplanin Monoclonal Antibody (Catalog # NBP2-03952) at 0.5 ug/mL for 1 hour at room temperature followed by incubation with the Anti-Rat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC005). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the cell surface.



Western Blot: Podoplanin Antibody (NZ-1.2) [NBP2-03952] - Analysis using the Azide Free version of NBP2-03952. Detection of lysate from human A) Brain, B) Heart, C) Small Intestine, D) Kidney, E) Liver, F) Lung, G) Muscle, H) Stomach, I) Spleen, J) Ovary, and K) Testis probed with podoplanin antibody at 5 ug/ml.

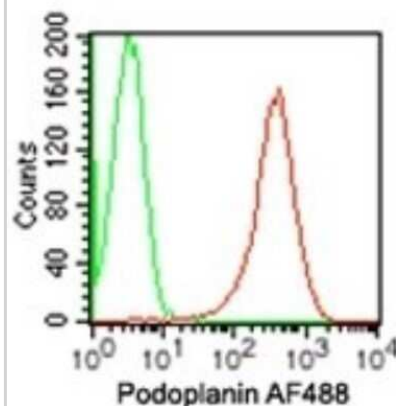


Flow Cytometry: Podoplanin Antibody (NZ-1.2) [NBP2-03952] - A surface stain was performed on Ntera2 cells with Podoplanin Antibody (NZ-1.2) NBP2-03952AF647 (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 2.5 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.

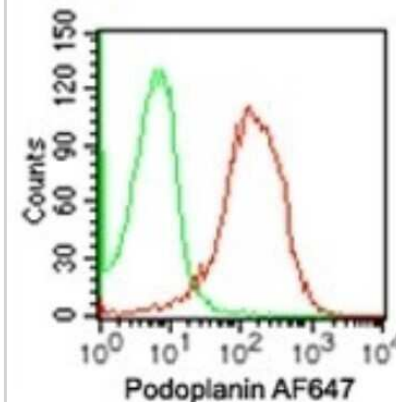


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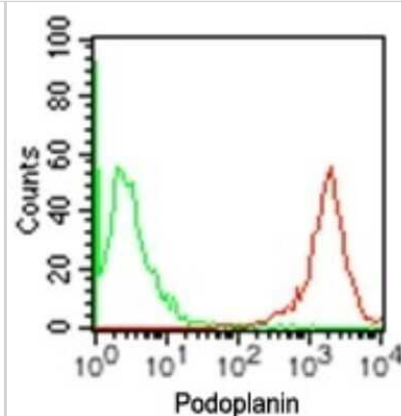
Flow Cytometry: Podoplanin Antibody (NZ-1.2) [NBP2-03952] - Analysis using the Alexa Fluor (R) 488 conjugate of NBP2-03952. Staining using Podoplanin antibody. Human NCCIT cells were probed using 10 ul (0.15 ug) of Podoplanin antibody (red) and 0.15 ug of isotype control antibody (green).



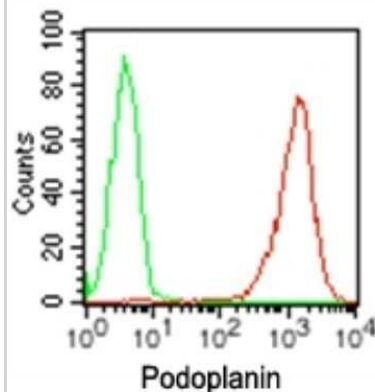
Flow Cytometry: Podoplanin Antibody (NZ-1.2) [NBP2-03952] - Analysis using the Alexa Fluor (R) 647 conjugate of NBP2-03952. Staining using Podoplanin antibody. Human NCCIT cells were probed using 10 ul (0.15 ug) of Podoplanin antibody (red) and 0.15 ug of isotype control antibody (green).



Flow Cytometry: Podoplanin Antibody (NZ-1.2) [NBP2-03952] - Analysis using the Azide Free version of NBP2-03952. Staining using Podoplanin antibody. Human NCCIT cells were probed using 0.2 ug of Podoplanin antibody (red) and 0.2 ug of isotype control antibody (green). Flow kit and anti-rat PE secondary were used for this test.



Flow Cytometry: Podoplanin Antibody (NZ-1.2) [NBP2-03952] - Analysis using the PE conjugate of NBP2-03952. Staining using Podoplanin antibody. Human NCCIT cells were probed using 10 ul (0.2 ug) of Podoplanin antibody (red) and 0.2 ug of isotype control antibody (green).



Publications

Cong X, Nagre N, Herrera J et al. TRIM72 promotes alveolar epithelial cell membrane repair and ameliorates lung fibrosis *Respir. Res.* 2020-05-29 [PMID: 32471489] (IHC-P, Mouse, Human)

Cheriyen V, Wang Y, Muthu M et al. Disulfiram suppresses growth of the malignant pleural mesothelioma cells in part by inducing apoptosis. *PLoS ONE* 2014-04-02 [PMID: 24690739] (WB, Human)

Details:

H2373 malignant pleural mesothelioma cells, Fig S1B. Podoplanin migrates as multiple forms between ~50-100 kDa on WB. DSF-Cu treatment dramatically induced the 100 kDa size and overall the results suggested that DSF-Cu treatments cause post-translational

Jamal S, Cheriyen VT, Muthu M et al. CARP-1 Functional Mimetics Are a Novel Class of Small Molecule Inhibitors of Malignant Pleural Mesothelioma Cells. *PLoS ONE* 2014-03-06 [PMID: 24598827] (WB, Human)

Details:

Malignant pleural mesothelioma H2373 cells, Fig S1. Podoplanin has extensive post-translational modifications including glycosylation and is often expressed as peptides of 50 kDa or higher, whereas its cDNA encodes for a peptide of 162 amino acids with an



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Products Related to NBP2-03952

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NB7115	Goat anti-Rat IgG (H+L) Secondary Antibody [HRP]
NBP2-31382	Rat IgG2a Lambda Isotype Control (RG2aL)

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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