

Product Datasheet

pan Actin Antibody (5J11) - BSA Free NBP2-25142

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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NBP2-25142

pan Actin Antibody (5J11) - BSA Free

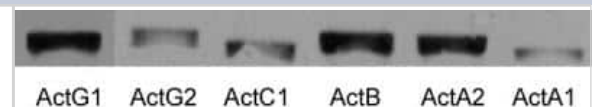
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	5J11
Preservative	5mM Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	42 kDa

Product Description	
Description	Novus Biologicals Mouse pan Actin Antibody (5J11) - BSA Free (NBP2-25142) is a monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-pan Actin Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	58
Gene Symbol	ACTA1
Species	Human, Mouse, Rat, Porcine, Bovine, Equine
Specificity/Sensitivity	This antibody recognizes all six isotypes of Actin.
Immunogen	An Actin preparation derived from bovine brain.

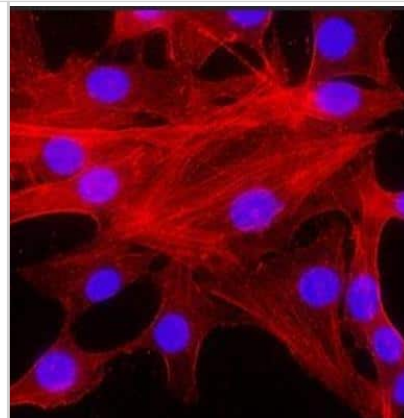
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 1:10-1:1000, Immunohistochemistry 1:500-1:1000, Immunocytochemistry/ Immunofluorescence 1:500-1:1000
Application Notes	This Actin (5J11) antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry, and Western Blot, where a band can be seen at ~42 kDa.

Images

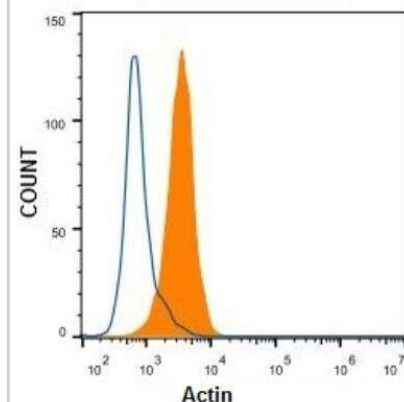
Western Blot: Actin Antibody (5J11) [NBP2-25142] - NBP2-25142 was used to detect GST fusion proteins expressing each of the six human actin proteins. GST-fusion proteins encoding all six full length human actin gene products were run out on SDS-PAGE, transferred to nitrocellulose and reacted with NBP2-25142. The antibody stained all six proteins indicating that it is a panspecific actin antibody.



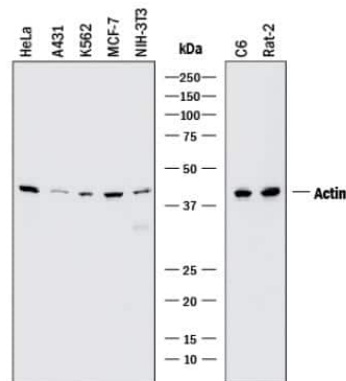
Immunocytochemistry/Immunofluorescence: Actin Antibody (5J11) [NBP2-25142] - Beta actin was detected in NIH-3T3 cells fixed with methanol using mouse anti-mouse beta-Actin monoclonal antibody (NBP2-25142) at 1:2700 dilution. Cells were stained using Northern Lights 557 conjugated anti-mouse secondary antibody (NL007) and counterstained with DAPI.



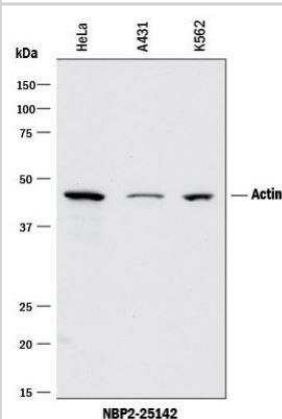
Flow Cytometry: Actin Antibody (5J11) [NBP2-25142] - analysis of HeLa cells using mouse Monoclonal Actin antibody (Orange) and Isotype control Antibody (Blue).



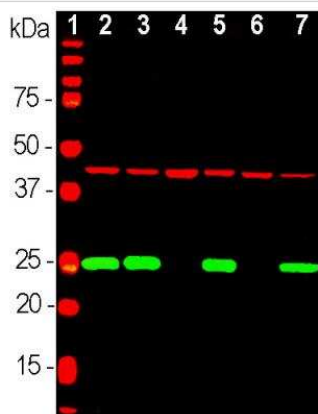
Western Blot: Actin Antibody (5J11) [NBP2-25142] - Analysis of HeLa, A431, K562, MCF-7, NIH-3T3, C6, and Rat-2 cell lines.



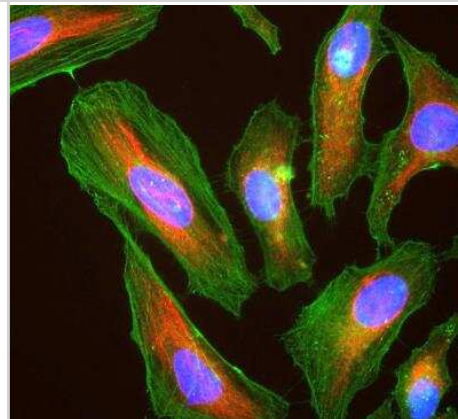
Western Blot: Actin Antibody (5J11) [NBP2-25142] - lysates of HeLa human cervical epithelial carcinoma cell line, A431 human epithelial carcinoma cell line, and K562 human chronic myelogenous leukemia cell line. PVDF membrane was probed with 0.2 ug/mL mouse anti-Actin monoclonal (NBP2-25142, Novus Biologicals), followed by 1:2000 dilution of HRP- conjugated secondary antibody, donkey anti-mouse IgG (HAF018, R&D Systems).



Western Blot: Actin Antibody (5J11) [NBP2-25142] - Analysis of tissue and cell lysates probed with mouse mAb against actin, NBP2-25142, in red. [1] protein standard, [2] rat brain, [3] mouse brain, [4] NIH-3T3, [5] HEK293, [6] HeLa, [7] SH-SY5Y cells. The same blot was simultaneously probed with chicken pAb to UCHL-1, a marker of neuronal lineage cells, in green.



Immunocytochemistry/Immunofluorescence: Actin Antibody (5J11) [NBP2-25142] - HeLa cells stained with NBP2-25142 (green) and also with the chicken polyclonal antibody to Vimentin (NB300-223, red). The Actin antibody stains the submembranous Actin rich cytoskeleton and also stress fibers, bundles of Actin associated with adhesion sites. The Vimentin antibody stains a quite different cytoskeletal network, the intermediate filaments. The blue stain reveals DNA in the nuclei of these cells.



Publications

Jäckle A, Ziemssen F, Kuhn EM et al. Sitagliptin and the Blood-Retina Barrier: Effects on Retinal Endothelial Cells Manifested Only after Prolonged Exposure Journal of Diabetes Research 2020-05-26 [PMID: 32566677] (In vivo assay, Block/Neutralize)

Deissler HL, Rehak M, Busch C, Wolf A Blocking of VEGF-A is not sufficient to completely revert its long-term effects on the barrier formed by retinal endothelial cells Experimental eye research 2022-01-14 [PMID: 35038456] (WB, Bovine)



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Products Related to NBP2-25142

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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