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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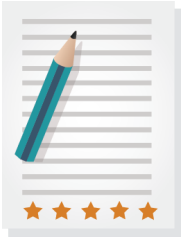
Updated 2/23/2025 v.20.1



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	0.035% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	42 kDa

Product Description

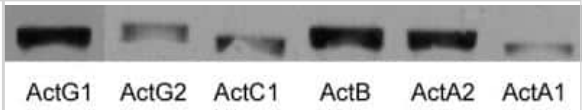
Host	Mouse
Gene ID	58
Gene Symbol	ACTA1
Species	Human, Mouse, Rat, Porcine, Bovine, Equine
Specificity/Sensitivity	This antibody recognizes all six isotypes of Actin.
Immunogen	An Actin preparation derived from bovine brain.

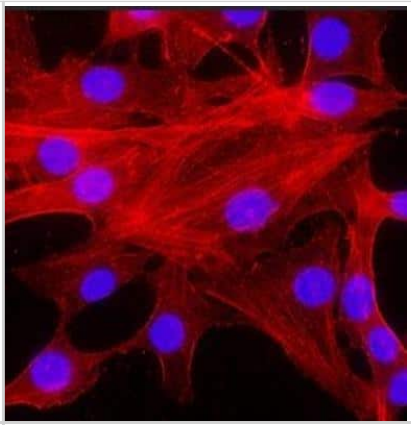
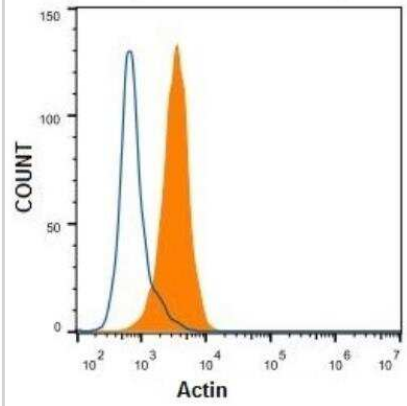
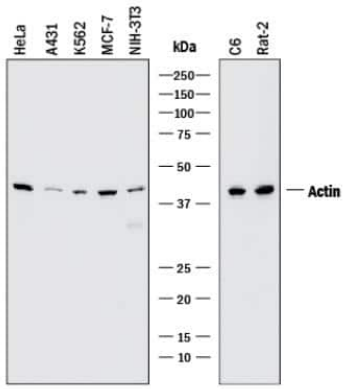
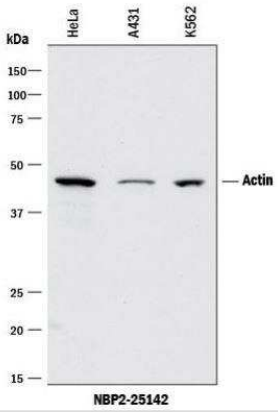
Product Application Details

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.

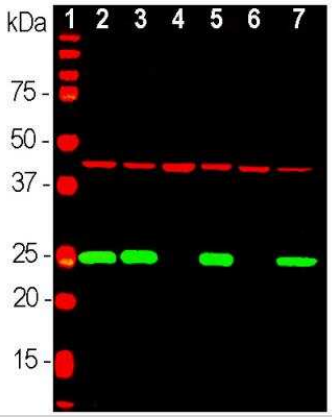
Images

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.

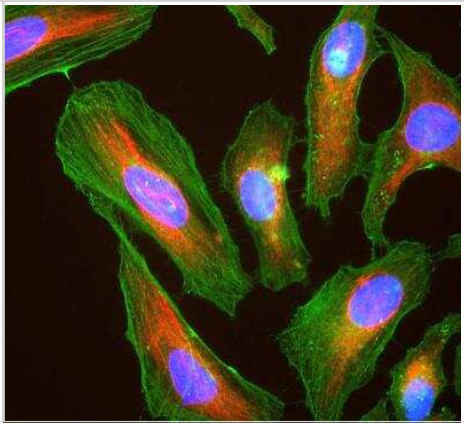


Immunocytochemistry/Immunofluorescence: Actin Antibody (5J11) [NBP2-25142] - Beta actin was detected in NIH-3T3 cells fixed with methanol using mouse anti-mouse beta-Actin monoclonal antibody (NBP2-25142) at 1:2700 dilution. Cells were stained using Northern Lights 557 conjugated anti-mouse secondary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

J□ckle 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

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
664-LI-025	LIGHT/TNFSF14 [Unconjugated]

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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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