

Product Datasheet

Actin Gamma 1 Antibody (2A3) - BSA Free NBP1-97720

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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NBP1-97720

Actin Gamma 1 Antibody (2A3) - BSA Free

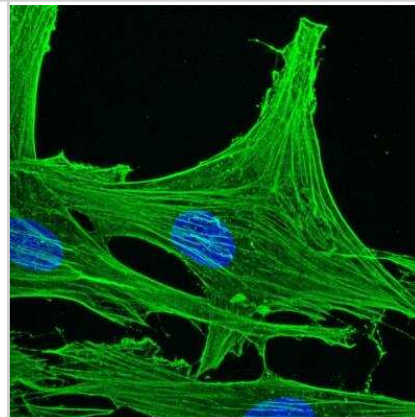
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2A3
Preservative	0.09% Sodium Azide
Isotype	IgG2b
Purity	Protein A or G purified
Buffer	PBS, pH 7.2
Product Description	
Description	The antibody is shipped at ambient temperature and may be stored at 4C. For prolonged storage prepare appropriate aliquots and store at or below -20C. Prior to use, an aliquot is thawed slowly in the dark at ambient temperature, spun down again and used to prepare working dilutions by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at 4C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance or the concentration of the product.
Host	Mouse
Gene ID	71
Gene Symbol	ACTG1
Species	Human, Mouse, Rat, Porcine, Chicken, Rabbit, Zebrafish
Reactivity Notes	The epitope recognized is highly conserved. The antibody therefore cross-reacts with many species including protochordates, lower craniates and mammals. Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Specificity/Sensitivity	This mouse monoclonal IgG2b antibody highly specific for gamma-cytoplasmic actin (Actin Gamma 1; encoded by ACTG1). It does not cross-react with the Actin Gamma 1 isoform expressed in the enteric smooth muscle tissues (actin gamma 2; encoded by ACTG2).
Immunogen	Derived by fusion of NS0 Mouse myeloma cells with spleen cells from a BALB/c Mouse immunized with a peptide comprising the N-terminal nonapeptide of gamma-cytoplasmic actin with an acetylated N-terminus (Ac-EEEEIAALVI-COOH) coupled to keyhole limpet hemocyanin through the cysteine residue. The antibody does not cross react with other actin isoforms.
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, CyTOF-ready



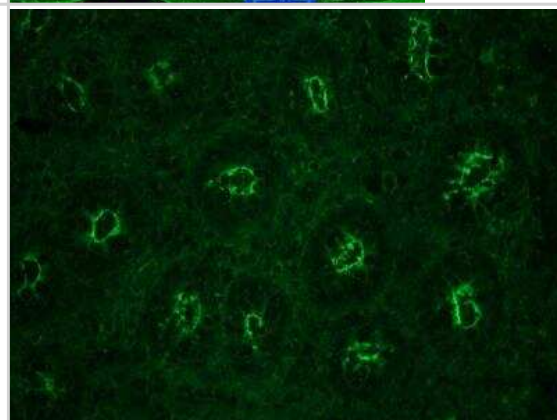
Recommended Dilutions	Western Blot 1:1000-1:5000, Flow Cytometry 1:100 - 1:500, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:100-1:500, Immunohistochemistry-Frozen 1:100-1:500, CyTOF-ready
Application Notes	Optimal antibody dilution should be determined by titration; recommended range is 1:100 - 1:500 for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1:1000 - 1:5000 for immunoblotting applications. This antibody is CyTOF ready.

Images

Immunocytochemistry/Immunofluorescence: Actin Gamma 1 Antibody (2A3) [NBP1-97720] - Methanol fixed human dermal fibroblasts immunostained with 2A3 (1:500)



Immunohistochemistry: Actin Gamma 1 Antibody (2A3) [NBP1-97720] - Reactivity of NBP1-97720 (up to a 1:1000 dilution) in the epithelial villi and smooth muscle cells in swine colon.



Publications

Tomasek JJ, Haaksma CJ, Schwartz RJ, Howard EW. Whole animal knockout of smooth muscle alpha-actin does not alter excisional wound healing or the fibroblast-to-myofibroblast transition Wound Repair Regen 2013-01-01 [PMID: 23253249] (WB, Mouse)



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Products Related to NBP1-97720

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)
NBP1-97720PE	Actin Gamma 1 Antibody (2A3) [PE]

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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