

Product Datasheet

Actin (Muscle Specific) Antibody (MSA/953) NBP2-45274-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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NBP2-45274-0.1mg

Actin (Muscle Specific) Antibody (MSA/953)

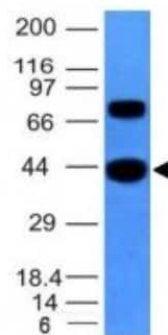
Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	MSA/953
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA

Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-47662) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80 C.
Host	Mouse
Gene ID	58
Gene Symbol	ACTA1
Species	Human, Rat, Rabbit
Marker	Muscle Cell Marker
Specificity/Sensitivity	This antibody recognizes actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with other mesenchymal cells except for myoepithelium. Actin can be resolved on the basis of its isoelectric points into three distinctive components: alpha, beta, and gamma in order of increasing isoelectric point. Anti-muscle specific actin recognizes alpha and gamma isotypes of all muscle groups. Non-muscle cells such as vascular endothelial cells and connective tissues are non-reactive. Also, neoplastic cells of non-muscle-derived tissue such as carcinomas, melanomas, and lymphomas are negative. It stains tumors of smooth muscle (leiomyomas and leiomyosarcomas) as well as skeletal muscle (rhabdomyomas and rhabdomyosarcomas).
Immunogen	Synthetic peptide common among human muscle actins

Product Application Details	
Applications	Western Blot, Flow (Intracellular), Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.5-1.0 ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin 0.5-2 ug/ml, Flow (Intracellular)
Application Notes	Immunohistochemistry (Formalin-fixed): 0.5-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

Images

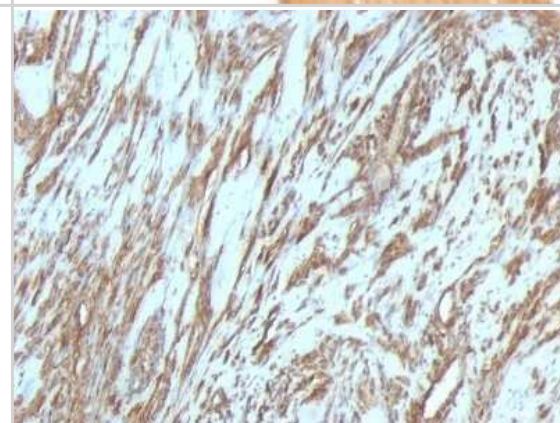
Western Blot: Actin (Muscle Specific) Antibody (MSA/953) [NBP2-45274]
- hSKM cell lysate using Muscle Specific Actin Monoclonal Antibody (MSA/953)



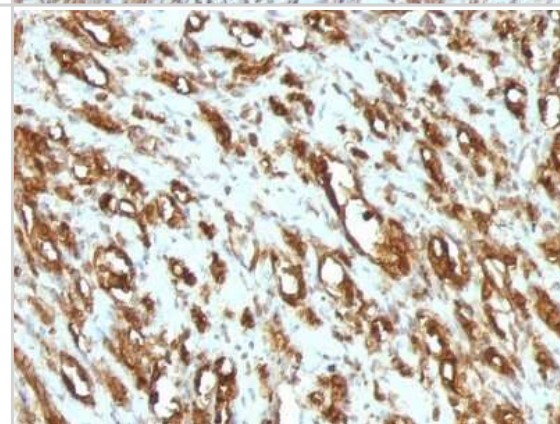
Immunohistochemistry-Paraffin: Actin (Muscle Specific) Antibody (MSA/953) [NBP2-45274] - Formalin-fixed paraffin-embedded rat stomach stained with muscle specific actin monoclonal antibody (MSA/953)



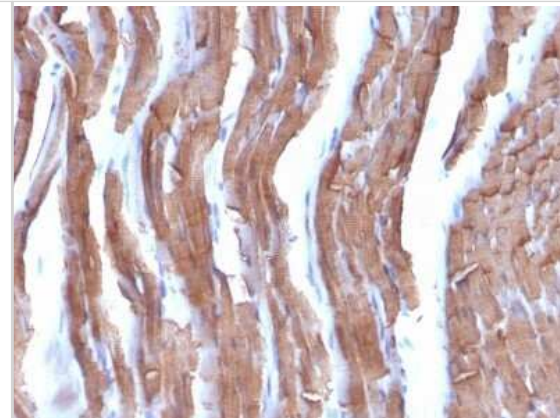
Immunohistochemistry-Paraffin: Actin (Muscle Specific) Antibody (MSA/953) [NBP2-45274] - Human Leiomyosarcoma stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



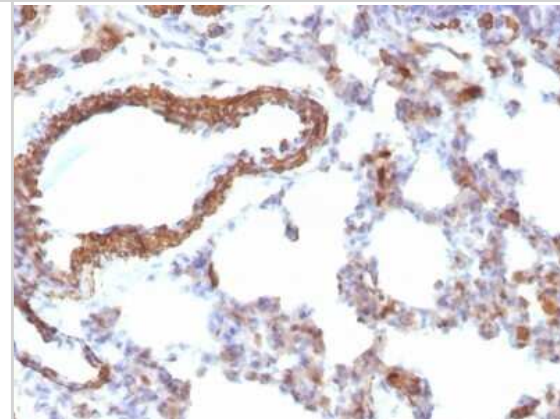
Immunohistochemistry-Paraffin: Actin (Muscle Specific) Antibody (MSA/953) [NBP2-45274] - Human Rhabdomyosarcoma stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



Immunohistochemistry-Paraffin: Actin (Muscle Specific) Antibody (MSA/953) [NBP2-45274] - Rat Heart stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



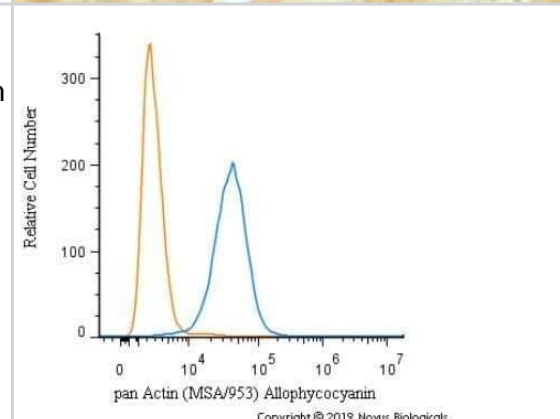
Immunohistochemistry-Paraffin: Actin (Muscle Specific) Antibody (MSA/953) [NBP2-45274] - Rat Lung stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



Immunohistochemistry-Paraffin: Actin (Muscle Specific) Antibody (MSA/953) [NBP2-45274] - Rat Skeletal Muscle stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



Flow (Intracellular): Actin (Muscle Specific) Antibody (MSA/953) [NBP2-45274] - Flow (Intracellular): Actin (Muscle Specific) Antibody (MSA/953) [NBP2-45274] - An intracellular stain was performed on HepG2 cells with pan Actin [MSA/953] Antibody NBP2-47662APC (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Allophycocyanin. Image using the Allophycocyanin format of this antibody.



Publications

Miyasaka Y, Murakami K, Ito K et al. Condensed desmin and actin cytoskeletal communication in lipid droplets Cytoskeleton (Hoboken) 2019-10-18 [PMID: 31626391] (WB)



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Products Related to NBP2-45274-0.1mg

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
664-LI-025	LIGHT/TNFSF14 [Unconjugated]

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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