

# Product Datasheet

## **Actin (Muscle Specific) Antibody (MSA/953) - Azide and BSA Free**

### **NBP2-47662-0.1mg**

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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[technical@novusbio.com](mailto:technical@novusbio.com)

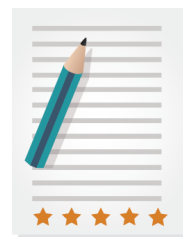
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Actin (Muscle Specific) Antibody (MSA/953) - Azide and BSA Free

| Product Information |                                                 |
|---------------------|-------------------------------------------------|
| Unit Size           | 0.1 mg                                          |
| Concentration       | 1.0 mg/ml                                       |
| Storage             | Store at -20 to -80C. Avoid freeze-thaw cycles. |
| Clonality           | Monoclonal                                      |
| Clone               | MSA/953                                         |
| Preservative        | No Preservative                                 |
| Isotype             | IgG1 Kappa                                      |
| Purity              | Protein A or G purified                         |
| Buffer              | 10 mM PBS                                       |

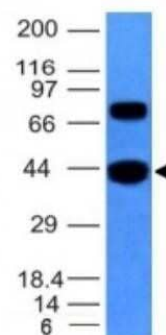
| Product Description     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description             | 1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-45274).<br><br>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 Cytometry, Flow (Intracellular), Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready                                                                                                                                                                                        |
| Recommended Dilutions       | Western Blot 0.5 - 1.0 ug/ml, Flow Cytometry 0.5 - 1 ug/million cells in 0.1 ml, Immunohistochemistry, Immunohistochemistry-Paraffin 0.25 - 0.5 ug/ml, Flow (Intracellular), CyTOF-ready                                                                                                                    |
| Application Notes           | Immunohistochemistry (Formalin-fixed): 1-2ug/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

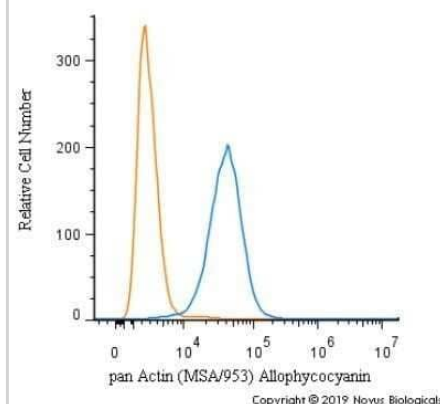
Western Blot: Actin (Muscle Specific) Antibody (MSA/953) - Azide and BSA Free [NBP2-47662] - hSKM cell lysate using Muscle Specific Actin Monoclonal Antibody (MSA/953)



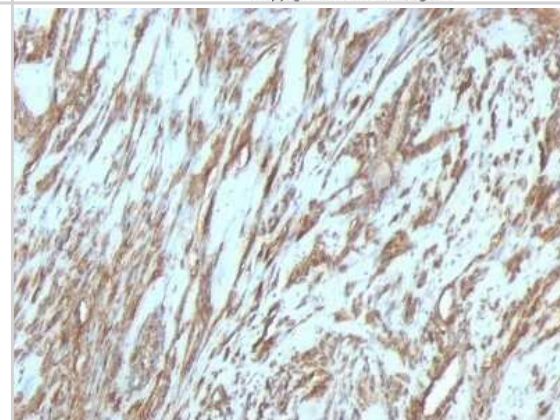
Immunohistochemistry-Paraffin: Actin (Muscle Specific) Antibody (MSA/953) - Azide and BSA Free [NBP2-47662] - Rat Skeletal Muscle stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



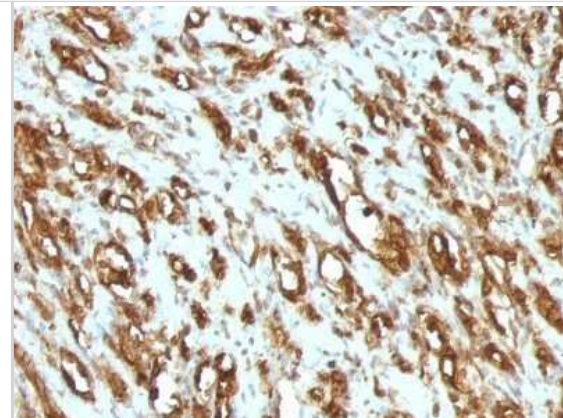
Flow (Intracellular): Actin (Muscle Specific) Antibody (MSA/953) - Azide and BSA Free [NBP2-47662] - Flow (Intracellular): Actin (Muscle Specific) Antibody (MSA/953) [NBP2-45274] - An intracellular stain was performed on HepG2 cells with pan Actin [MSA/953] Antibody NBP2-47662APC (blue) and a matched 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.



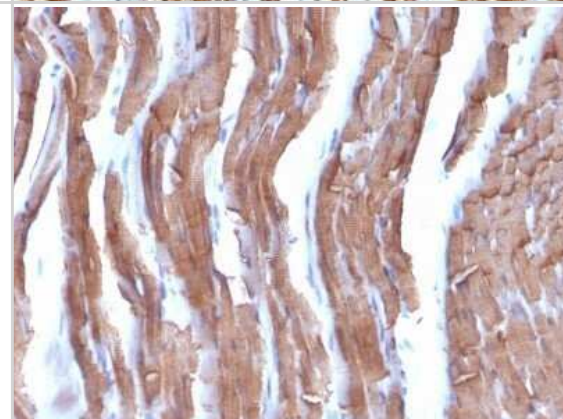
Immunohistochemistry-Paraffin: Actin (Muscle Specific) Antibody (MSA/953) - Azide and BSA Free [NBP2-47662] - Human Leiomyosarcoma stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



Immunohistochemistry-Paraffin: Actin (Muscle Specific) Antibody (MSA/953) - Azide and BSA Free [NBP2-47662] - Human Rhabdomyosarcoma stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



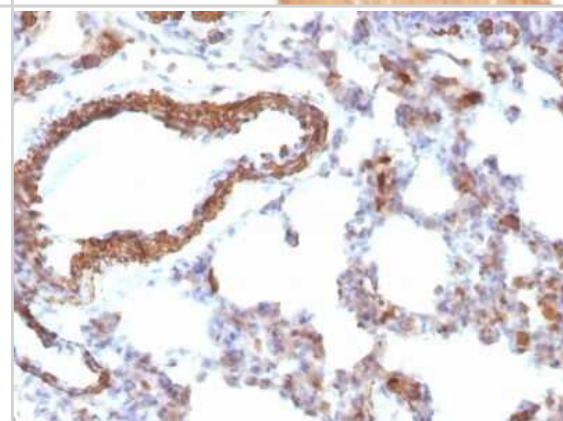
Immunohistochemistry-Paraffin: Actin (Muscle Specific) Antibody (MSA/953) - Azide and BSA Free [NBP2-47662] - Rat Heart stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



Immunohistochemistry-Paraffin: Actin (Muscle Specific) Antibody (MSA/953) - Azide and BSA Free [NBP2-47662] - Formalin-fixed paraffin-embedded rat stomach stained with muscle specific actin monoclonal antibody (MSA/953)



Immunohistochemistry-Paraffin: Actin (Muscle Specific) Antibody (MSA/953) - Azide and BSA Free [NBP2-47662] - Rat Lung stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



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**Products Related to NBP2-47662-0.1mg**

|                  |                                                         |
|------------------|---------------------------------------------------------|
| 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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