

# Product Datasheet

## **Actin (Muscle Specific) Antibody (HHF35) - Azide and BSA Free NBP2-34634-0.1mg**

Unit Size: 0.1 mg

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

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**NBP2-34634-0.1mg**

Actin (Muscle Specific) Antibody (HHF35) - 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	HHF35
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 (NBP2-34230).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	58
Gene Symbol	ACTA1
Species	Human, Mouse, Rat, Canine, Chicken, Feline, 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	SDS extract of human myocardium.

Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, CyTOF-ready
Recommended Dilutions	Western Blot 0.5-1.0ug/ml, Simple Western, Flow Cytometry 0.5-1ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 0.5-1ug/ml, Immunohistochemistry-Paraffin 0.5-1.0ug/ml, Immunohistochemistry-Frozen 0.5-1.0ug/ml, CyTOF-ready



**Application Notes**

Immunohistochemistry (Formalin-fixed): 0.25-0.5ug/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.

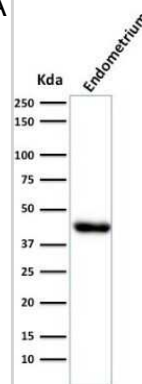
Optimal dilution for a specific application should be determined.

Immunohistochemistry (No special pretreatment is required for the IHC staining of formalin-fixed, paraffin-embedded tissues.).

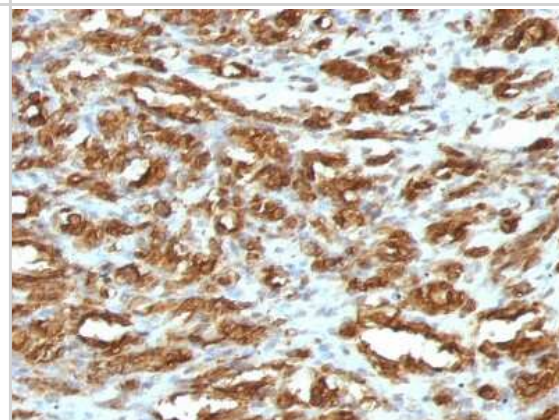
In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. Separated by Size.

**Images**

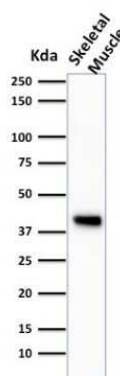
Western Blot: Actin (Muscle Specific) Antibody (HHF35) - Azide and BSA Free [NBP2-34634] - Western Blot Analysis of Endometrium muscle tissue lysate using pan Actin Antibody (HHF35).



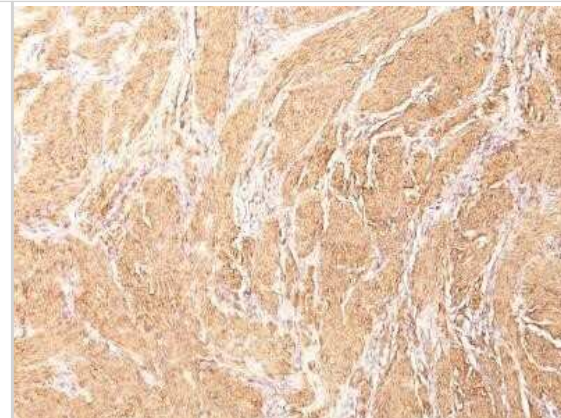
Immunohistochemistry-Paraffin: Actin (Muscle Specific) Antibody (HHF35) - Azide and BSA Free [NBP2-34634] - Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma stained with Actin (Muscle Specific) Antibody (HHF35).



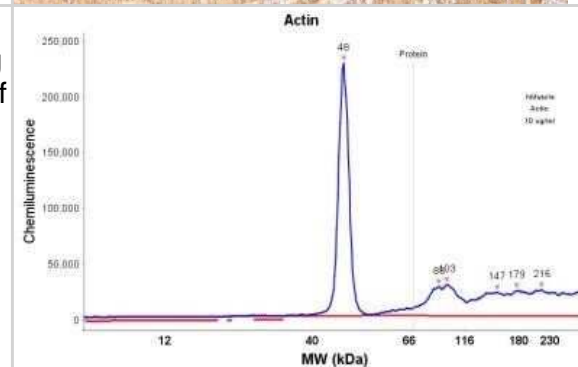
Western Blot: Actin (Muscle Specific) Antibody (HHF35) - Azide and BSA Free [NBP2-34634] - Western Blot Analysis of Skeletal muscle tissue lysate using pan Actin Antibody (HHF35).



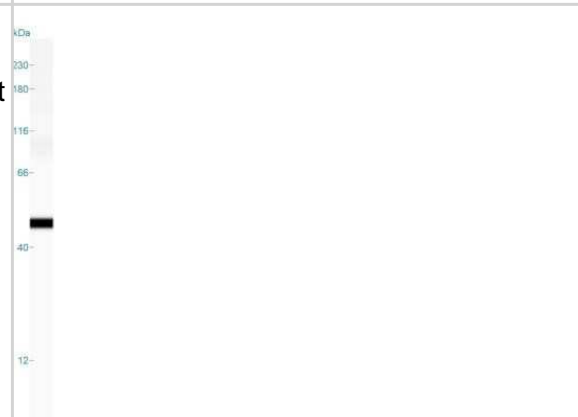
Immunohistochemistry-Paraffin: Actin (Muscle Specific) Antibody (HHF35) - Azide and BSA Free [NBP2-34634] - Formalin-fixed, paraffin-embedded human leiomyosarcoma (10X) stained with muscle specific actin MAb (HHF35)



Simple Western: Actin (Muscle Specific) Antibody (HHF35) - Azide and BSA Free [NBP2-34634] - Electropherogram image of the corresponding Simple Western lane. pan Actin antibody was used at 10 ug/ml dilution of Muscle (Sk) lysates(s) respectively.



Simple Western: Actin (Muscle Specific) Antibody (HHF35) - Azide and BSA Free [NBP2-34634] - Simple Western lane view shows a specific band for pan Actin in 0.2 mg/ml of Muscle (Sk) lysate(s). This experiment was performed under reducing conditions using the 12-230 kDa separation system.





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### **Products Related to NBP2-34634-0.1mg**

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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]

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### **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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