

Datasheet for ABIN3026689

anti-Actin antibody**4** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Actin (ACTA1)
Reactivity:	Human, Mouse, Rat, Rabbit
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Actin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Immunogen:	SDS extract of human myocardium was used as the immunogen for this Muscle actin HHF35 antibody.
Clone:	HHF35
Isotype:	IgG1 kappa
Characteristics:	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. This mAb recognizes alpha and gamma isotypes of all muscle groups. Nonmuscle cells such as vascular endothelial cells and connective tissues are non-reactive. Also, neoplastic cells of nonmuscle-derived tissue such as carcinomas, melanomas, and lymphomas are negative. It stains tumors of smooth (leiomyomas and leiomyosarcomas) as well as skeletal muscle (rhabdomyomas and rhabdomyosarcomas).

Product Details

Purification: Protein G affinity chromatography

Target Details

Target: Actin (ACTA1)

Alternative Name: Muscle Actin ([ACTA1 Products](#))

Background: 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. This mAb recognizes alpha and gamma isotypes of all muscle groups. Nonmuscle cells such as vascular endothelial cells and connective tissues are non-reactive. Also, neoplastic cells of nonmuscle-derived tissue such as carcinomas, melanomas, and lymphomas are negative. It stains tumors of smooth (leiomyomas and leiomyosarcomas) as well as skeletal muscle (rhabdomyomas and rhabdomyosarcomas).

Gene ID: 58

Pathways: [Caspase Cascade in Apoptosis, Myometrial Relaxation and Contraction, Skeletal Muscle Fiber Development](#)

Application Details

Application Notes: The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the Muscle actin HHF35 antibody to be titered up or down for optimal performance.

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

2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min. Western blot: 0.5-1 µg/mL, FACS: 0.5-1 µg/million cells, IF: 0.5-1 µg/mL, IHC (FFPE): 0.5-1.0 µg/mL for 30 minutes at RT (1), Prediluted format : incubate for 30 min at RT (2)

Restrictions: For Research Use only

Handling

Concentration: 1 mg/mL

Buffer: 1 mg/mL in 1X PBS, BSA free, sodium azide free

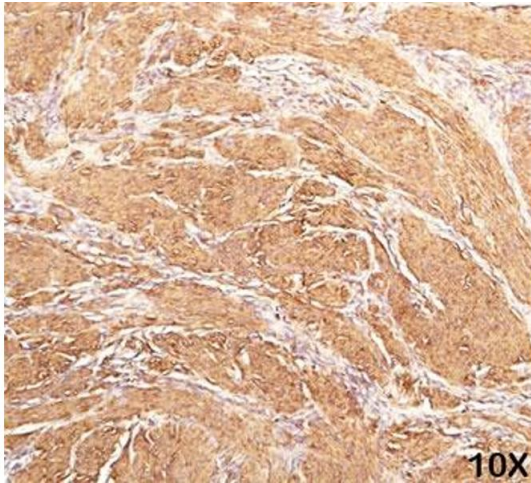
Handling

Preservative: Azide free

Storage: 4 °C,-20 °C

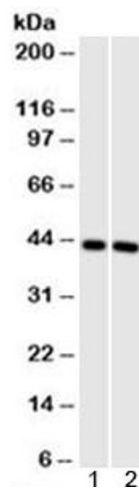
Storage Comment: Store the Muscle Actin antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

Images



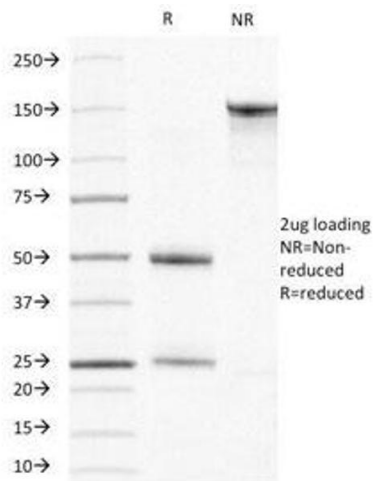
Immunohistochemistry

Image 1. IHC staining of human leiomyosarcoma (10X) with Muscle actin antibody (HHF35).



Western Blotting

Image 2. Western blot testing of 1) human muscle and 2) mouse muscle cell lysate with Muscle Actin antibody (clone HHF35).



SDS-PAGE

Image 3. SDS-PAGE Analysis of Purified, BSA-Free Muscle Actin Antibody (clone HHF35). Confirmation of Integrity and Purity of the Antibody.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3026689.