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36-3723: Anti-Actin, Muscle Specific (Muscle Cell Marker) Monoclonal Antibody(Clone: HHF35)

Clonality :	Monoclonal
Clone Name :	HHF35
Application :	FACS,IF,IHC
Reactivity :	Human
Gene :	ACTA1 (Skeletal); ACTA2 (Smooth); ACTG2 (Smooth)
Alternative Name :	ACTA, ACTA1, ACTA2, ACTC1, Actin, ACTSA, Alpha-2 actin, alpha skeletal muscle, Alpha-actin-1, Cardiac muscle alpha actin-1, Skeletal muscle alpha actin-1
Isotype :	Mouse IgG1, kappa
Immunogen Information :	SDS extract of human myocardium.

Description

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).

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); ,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 95&degC followed by cooling at RT for 20 minutes);

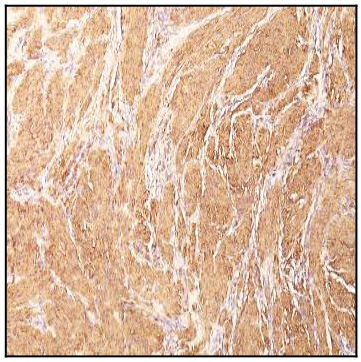


Fig. 1: Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with Muscle Specific Actin Mouse Monoclonal Antibody (HHF35).

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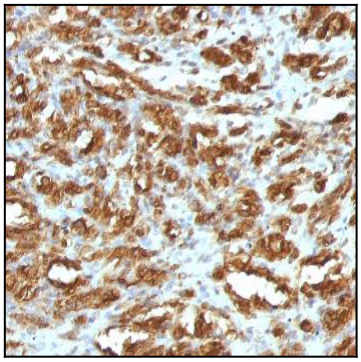


Fig. 2: Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma stained with Muscle Specific Actin Mouse Monoclonal Antibody (HHF35).

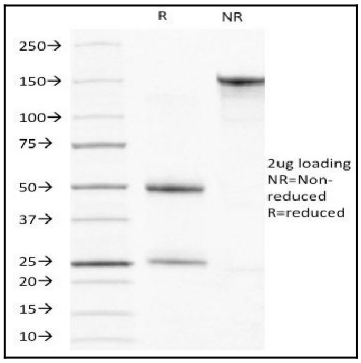


Fig. 3: SDS-PAGE Analysis Purified Muscle Specific Actin Mouse Monoclonal Antibody (HHF35). Confirmation of Purity and Integrity of Antibody.

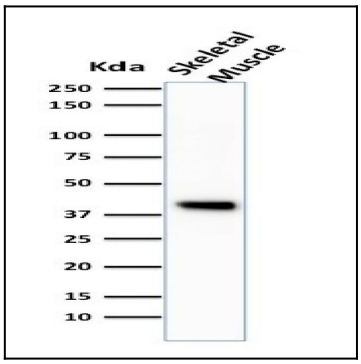


Fig. 4: Western Blot Analysis of Skeletal muscle tissue lysate using Muscle Specific Actin Mouse Monoclonal Antibody (HHF35).

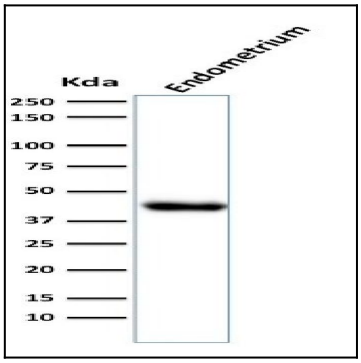


Fig. 5: Western Blot Analysis of Endometrium muscle tissue lysate using Muscle Specific Actin Mouse Monoclonal Antibody (HHF35).

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