

11-600-C025

Monoclonal Antibody to Actin Purified Antibody (0.025 mg)

Clone:	HHF35
lsotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody HHF35 recognizes muscle-specific alpha and gamma actin (42 kDa) in various species. This antibody stains skeletal, smooth and myocardial cells as well as myoepithelial cells and pericytes of small vessels. It is a widely used marker of muscle and muscle-derived cells.
Regulatory Status:	RUO
Immunogen:	SDS extracted protein fraction of human myocardium
Species Reactivity:	Human, Non-Human Primates, Mouse, Rat, Canine (Dog), Feline (Cat), Rabbit, Chicken
Application:	Western Blotting Recommended dilution:1 µg/ml Positive control:murine femoral muscle, murine heart Negative control:HUVEC line Application note:reducing conditions Immunohistochemistry (paraffin sections) Application note:Antigen retrieval steps generally not required, but e.g. in case of arterial smooth muscle cells or myoepithelial cells, pepsin or trypsin pretreatment is recommended. Immunohistochemistry (frozen sections)
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified from cell culture supernatant by protein-A affinity chromatography.
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	Actin is a highly conserved ubiquitous globular protein (G-actin) that polymerizes to form fibrous F-actin microfilaments. In higher eucaryotes several actin isoforms have been identified, that fall into three classes. Alpha actin is a structural component of the contractile apparatus of muscle cells or muscle-derived cells. Beta actin and gamma actin play roles in regulation of cell motility in other cell types. Specific subcellular structures such as as stress fibers, focal adhesions, filopodia etc., are formed by involvement of actin cytoskeleton.

For laboratory research only, not for drug, diagnostic or other use.

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Antibodies

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