

## Product datasheet for **AM26032PU-N**

### pan Actin (pan alpha / gamma 2) Mouse Monoclonal Antibody [Clone ID: HHF35]

#### Product data:

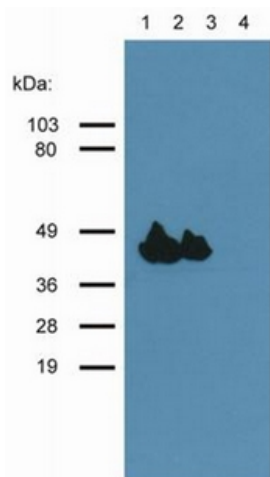
Product Type:	Primary Antibodies
Clone Name:	HHF35
Applications:	IHC, WB
Recommended Dilution:	<b>Western Blot</b> (Reducing conditions): 1 µg/ml. <b>Positive Control:</b> Murine femoral muscle, murine heart. <b>Negative Control:</b> HUVEC line. <b>Immunohistochemistry on Frozen Sections.</b> <b>Immunohistochemistry on Paraffin Sections:</b> 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.
Reactivity:	Canine, Chicken, Feline, Human, Mouse, Primate, Rabbit, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	SDS extracted protein fraction of Human myocardium.
Specificity:	This antibody recognizes muscle-specific alpha and gamma actin (42 kDa) in various species. It 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. <b>Cellular Localization:</b> Cytoplasmic.
Formulation:	PBS, pH~7.4 State: Aff - Purified State: Liquid purified Ig fraction (> 95% by SDS-PAGE) Preservative: 15 mM Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



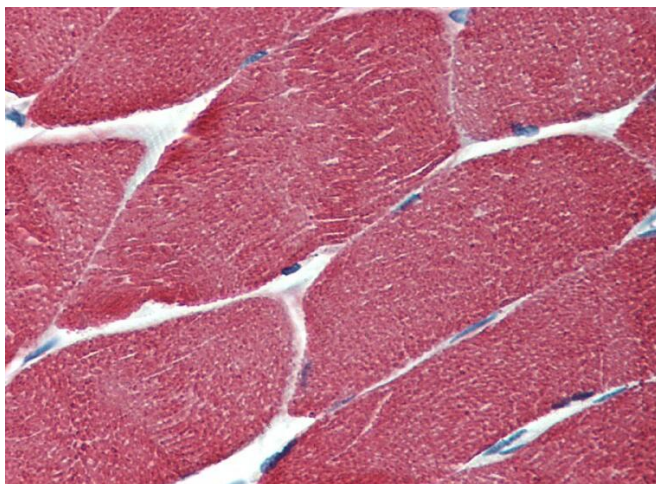
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**Background:**

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 stress fibers, focal adhesions, filopodia etc., are formed by involvement of actin cytoskeleton.

**Product images:**

Western blotting analysis of Muscle-Specific Actin using the monoclonal antibody Cat.-No. AM26032PU-N (Clone HHF35). Lane 1: Murine femoral muscle. Lane 2: Murine heart. Lane 3: HeLa. Lane 4: HUVEC.



Immunohistochemistry staining of human muscle (paraffin-embedded sections) with anti-muscle-specific actin (HHF35).