

Datasheet for ABIN457424

anti-Actin antibody

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Overview

Quantity:	0.1 mg
Target:	Actin (ACTA1)
Reactivity:	Human, Mouse, Rat, Rabbit, Chicken, Dog, Non-Human Primate, Cat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Actin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	SDS extracted protein fraction of human myocardium
Clone:	HHF35
Isotype:	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.
Cross-Reactivity (Details):	Human, Non-Human Primates, Mouse, Rat, Canine (Dog), Feline (Cat), Rabbit, Chicken
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	Actin (ACTA1)
Alternative Name:	Actin (muscle) (ACTA1 Products)
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.,Muscle specific actin
Pathways:	Caspase Cascade in Apoptosis , Myometrial Relaxation and Contraction , Skeletal Muscle Fiber Development

Application Details

Application Notes:	Western blotting: Recommended dilution: 1 µg/mL, positive control: murine femoral muscle, murine heart, negative control: HUVEC line, reducing conditions. Immunohistochemistry (paraffin sections): 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.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:	Matsuo, Susumu, Tsutsumi, Azuma, Obata, Hayashi: "Glomus tumor of the omentum: a case
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report." in: **Journal of surgical oncology**, Vol. 96, Issue 7, pp. 633-6, (2007) ([PubMed](#)).

Matsuyama, Hisaoka, Hashimoto: "Angioleiomyoma: a clinicopathologic and immunohistochemical reappraisal with special reference to the correlation with myopericytoma." in: **Human pathology**, Vol. 38, Issue 4, pp. 645-51, (2007) ([PubMed](#)).

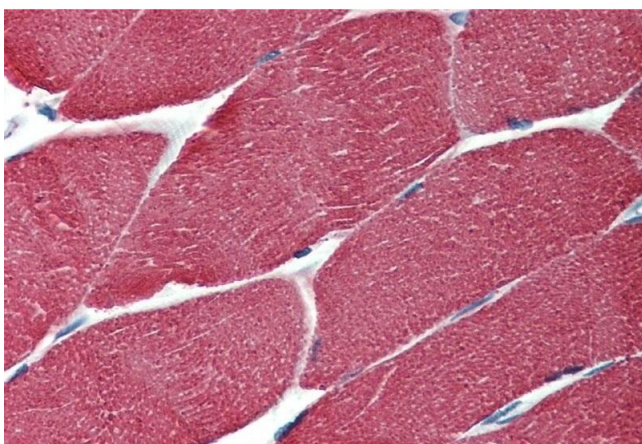
Ijzer, Roskams, Molenbeek, Ultee, Penning, Rothuizen, van den Ingh: "Morphological characterisation of portal myofibroblasts and hepatic stellate cells in the normal dog liver." in: **Comparative hepatology**, Vol. 5, pp. 7, (2006) ([PubMed](#)).

Handharyani, Ochiai, Iwata, Umemura: "Immunohistochemical and ultrastructural study of ito cells (fat-storing cells) in response to extrahepatic bile duct ligation in broiler chickens." in: **The Journal of veterinary medical science / the Japanese Society of Veterinary Science**, Vol. 63, Issue 5, pp. 547-52, (2001) ([PubMed](#)).

de Sousa, Schwarzschild, de Araújo, de Araújo: "Basal cell adenocarcinoma of the palate with squamous metaplasia." in: **Journal of clinical pathology**, Vol. 53, Issue 2, pp. 153-6, (2000) ([PubMed](#)).

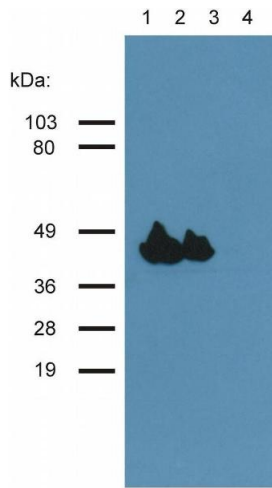
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Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry staining of human muscle (paraffin-embedded sections) with anti-muscle-specific actin (HHF35).



Western Blotting

Image 2. Western blotting analysis of muscle-specific actin using the monoclonal antibody HHF35. Lane 1: murine femoral muscle Lane 2: murine heart Lane 3: HeLa Lane 4: HUVEC