

Datasheet for ABIN6940518

anti-Smooth Muscle Actin antibody (N-Term)

4 Images

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Overview

Quantity:	100 µg
Target:	Smooth Muscle Actin (ACTA2)
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Chicken, Cow, Rabbit, Monkey, Baboon, Dog, Guinea Pig, Cat, Pig, Goat, Sheep
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Smooth Muscle Actin antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Staining Methods (StM)

Product Details

Immunogen:	N-Terminal decapeptide of alpha smooth muscle isoform of actin and conjugated to KLH.
Clone:	1A4-same as asm-1
Isotype:	IgG2a kappa
Specificity:	Actin is a major component of the cytoskeleton and is present in most cell types. This MAb is highly specific to actin from smooth muscles. Its epitope lies in the first four N-terminal amino acids. This MAb does not stain cardiac or skeletal muscle, however, it does stain myofibroblasts and myoepithelial cells. This antibody could be used together with anti-muscle specific actin and myogenin in making a diagnosis of smooth muscle and skeletal muscle tumors. In most cases of rhabdomyosarcoma, this antibody yields negative results whereas

Product Details

anti-muscle specific actin and myogenin are positive. Leiomyosarcomas are positive only with anti-muscle specific actin and anti-smooth muscle actin and are negative with anti-myogenin.

Purification: Purified by Protein A/G

Target Details

Target: Smooth Muscle Actin (ACTA2)

Alternative Name: ACTA2 ([ACTA2 Products](#))

Molecular Weight: 42kDa

Gene ID: 59

UniProt: [P62736](#)

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

Application Details

Application Notes: Positive Control: HeLa cells (FACS/IF). Blood vessels in all tissues, smooth muscle or leiomyosarcoma (IHC).

Known Application: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (1-4 µg/mL), Immunohistochemistry (Formalin-fixed) (0.25-0.5 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % 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.

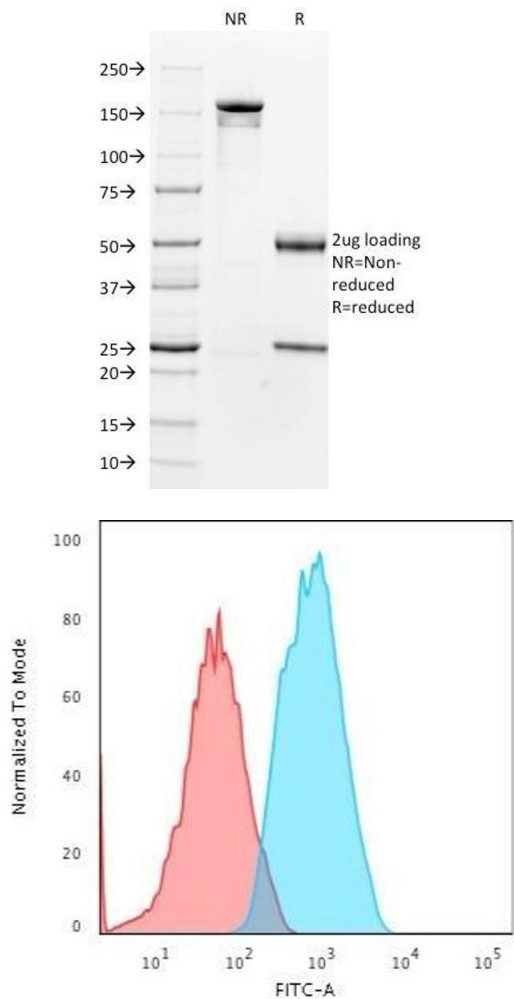
Storage: 4 °C,-80 °C

Storage Comment: 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. No MSDS required.

Expiry Date: 24 months

Images

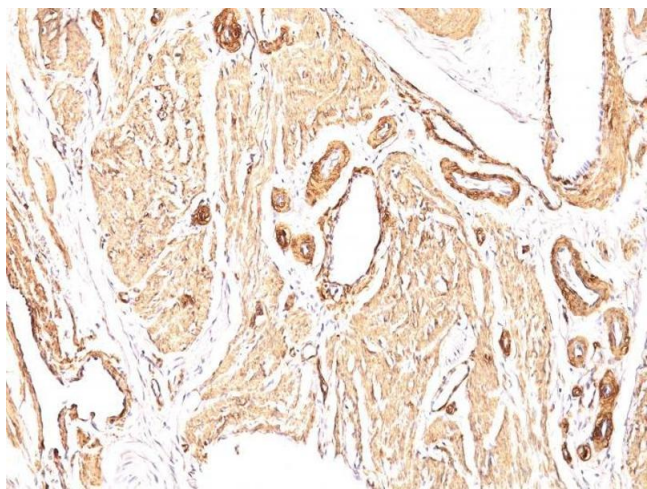


SDS-PAGE

Image 1. SDS-PAGE Analysis Purified Smooth Muscle Actin Mouse Monoclonal Antibody (1A4). Confirmation of Integrity and Purity of Antibody.

Flow Cytometry

Image 2. Flow Cytometric Analysis of Human HeLa cells using Smooth Muscle Actin Mouse Monoclonal Antibody (1A4) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype control (Red).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with Smooth Muscle Actin Mouse Monoclonal Antibody (1A4).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6940518.