

DATASHEET

alpha Smooth Muscle Actin Rabbit Monoclonal Antibody(C3119)

CAT. NO. AMA02731

KEY FEATURES

| | | | |
|---------------|---|---------------|--------------|
| Target | alpha Smooth Muscle Actin | Source / Host | Rabbit |
| Reactivity | Human, Mouse, Rat | Clonality | Monoclonal |
| Applications | WB, IHC, IF/ICC | Conjugation | Unconjugated |
| Form / Buffer | Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA. | Storage | at-20°C |

BACKGROUND

Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

| | |
|--------|----------------|
| WB | 1:500 - 1:3000 |
| IHC | 1:50 - 1:200 |
| IF/ICC | 1:100 - 1:500 |

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

| | |
|-------------------|---|
| Description | Rabbit monoclonal antibody to alpha Smooth Muscle Actin |
| Specificity | Recognizes endogenous levels of alpha Smooth Muscle Actin protein. |
| Antibody Type | Primary antibody |
| Immunogen | A synthetic peptide of human alpha Smooth Muscle Actin |
| Purification | The antibody was purified by immunogen affinity chromatography. |
| Molecular Weight | Predicted: 42 kD; Observed: 42 kD |
| Form/Buffer | Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA. |
| Alternative Names | ACTSA; ACTVS; Actin aortic smooth muscle; Alpha-actin-2; Cell growth-inhibiting gene 46 protein |
| Gene Symbol | ACTA2 |
| Entrez Gene | 59(Human); 11475(Mouse); 81633(Rat) |
| SwissProt | P62736(Human); P62737(Mouse); P62738(Rat) |

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

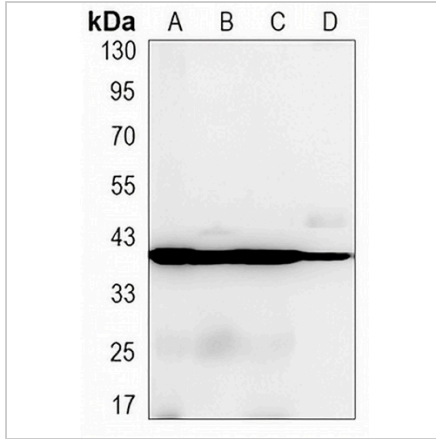
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET

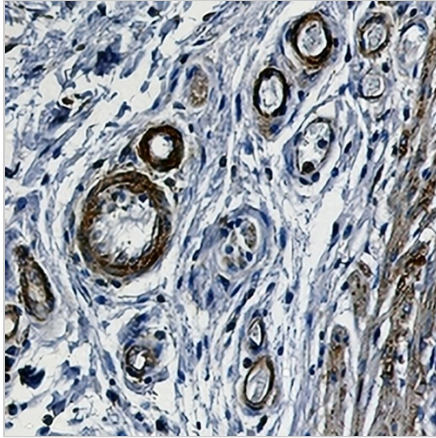
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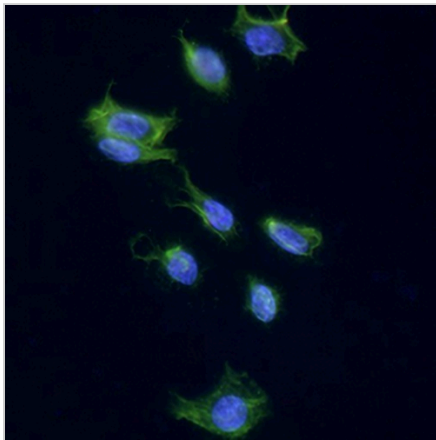
DATA



Western blot analysis of alpha Smooth Muscle Actin expression in rat brain (A), C6 (B), NIH3T3 (C), Hela (D) whole cell lysates. (Predicted band size: 42 kD; Observed band size: 42 kD)



Immunohistochemical analysis of alpha Smooth Muscle Actin staining in human colon cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of alpha Smooth Muscle Actin staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a FITC-conjugated secondary antibody (green) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.