

Anti-alpha smooth muscle Actin Recombinant Rabbit Monoclonal Antibody



Catalog #: 4018

Aliases

ACTA2; Actin Alpha 2, Smooth Muscle; ACTSA; Cell Growth-Inhibiting Gene 46 Protein; Actin, Alpha 2, Smooth Muscle, Aorta; Actin, Aortic Smooth Muscle; Alpha-Cardiac Actin; Alpha-Actin-2; EC 3.6.4.-; ACTVS; α -SMA; alpha smooth muscle Actin; a SMA

Background

Gene Name: ACTA2

NCBI Gene Entry: [59](#)

UniProt Entry: [P62736](#)

Application Information

Molecular Weight: Predicted, 42 kDa; observed, 42 kDa

Clonality: Rabbit monoclonal antibody

Clone ID: 24GB9180

Species Reactivity: Human, mouse, rat

Applications Tested: Western blotting (WB), flow cytometry (FCM), immunocytochemistry (IC)

Immunogen

A synthesized peptide derived from human alpha smooth muscle Actin

Isotype

Rabbit IgG

Storage Buffer

Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.

Storage

Store at -20 °C for one year.

Recommended Dilutions

Western Blotting (WB): 1:4,000-1:20,000

Flow Cytometry (FCM): 1:2,000

Immunocytochemistry (IC): 1:100-1:1,000

Note: This product is for research use only.

SUPPORT

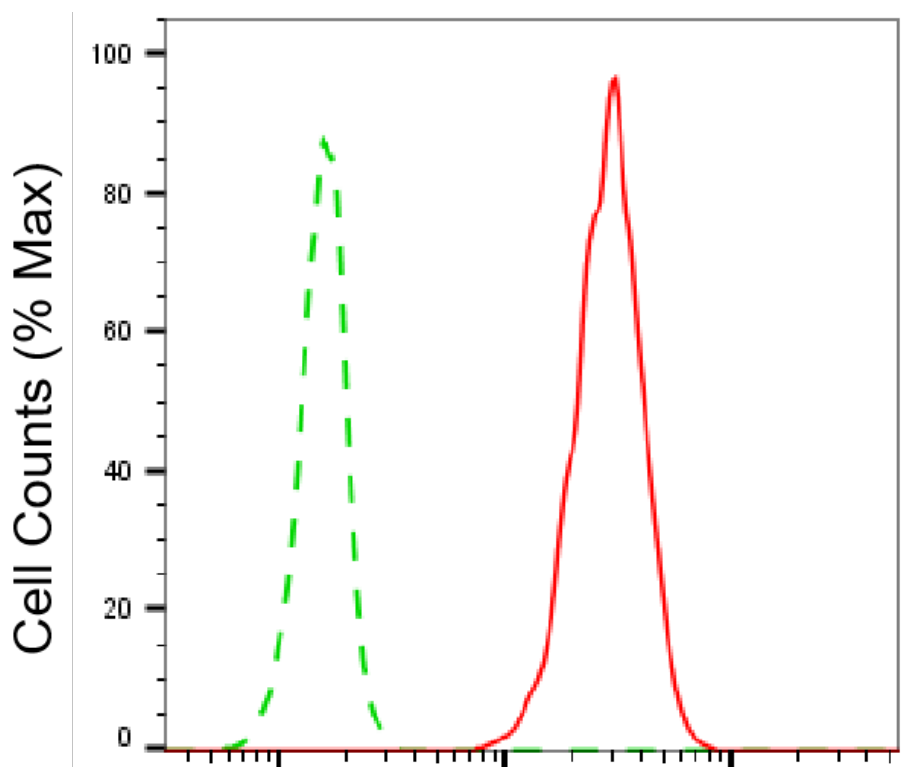
SUPPORT@GENUINBIOTECH.COM
TEL: +1-540-855-7041

ORDERS

SALES@GENUINBIOTECH.COM
FAX: +1-540-855-7041

WWW.GENUINBIOTECH.COM

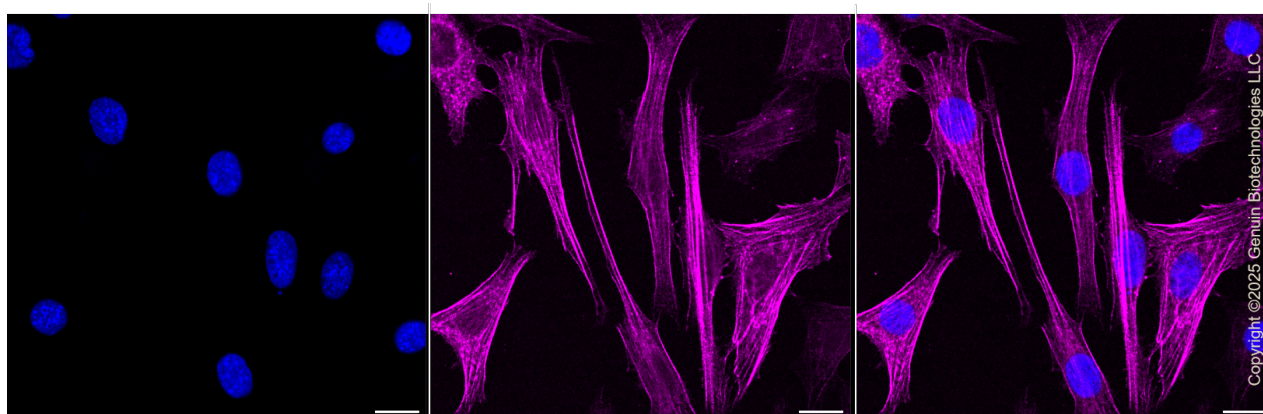
Validation Data



Copyright ©2025 Genuin Biotechnologies LLC

alpha smooth muscle Actin-Alexa Fluor® 647

Flow cytometric analysis of alpha smooth muscle Actin expression in C2C12 cells using anti-alpha smooth muscle Actin antibody (Cat#4018, 1:2,000). Green, isotype control; red, alpha smooth muscle Actin.



Copyright ©2025 Genuin Biotechnologies LLC

Immunocytochemical staining of C2C12 cells with anti-alpha smooth muscle Actin antibody (Cat#4018, 1:1,000). Nuclei were stained blue with DAPI; alpha smooth muscle Actin was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5.

Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 μm.

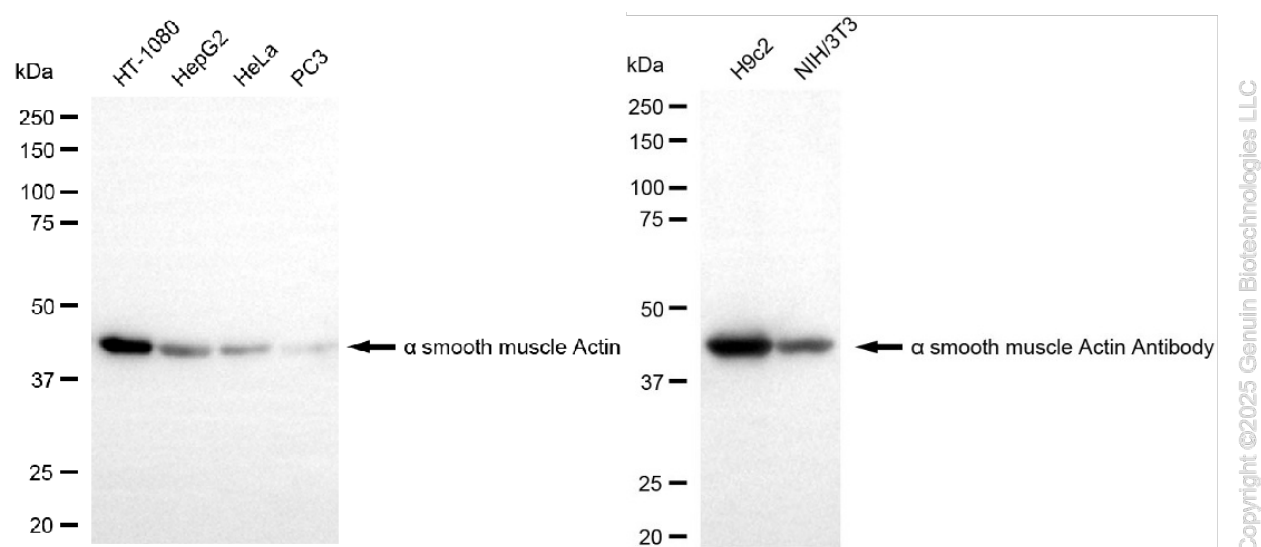
SUPPORT

SUPPORT@GENUINBIOTECH.COM
TEL: +1-540-855-7041

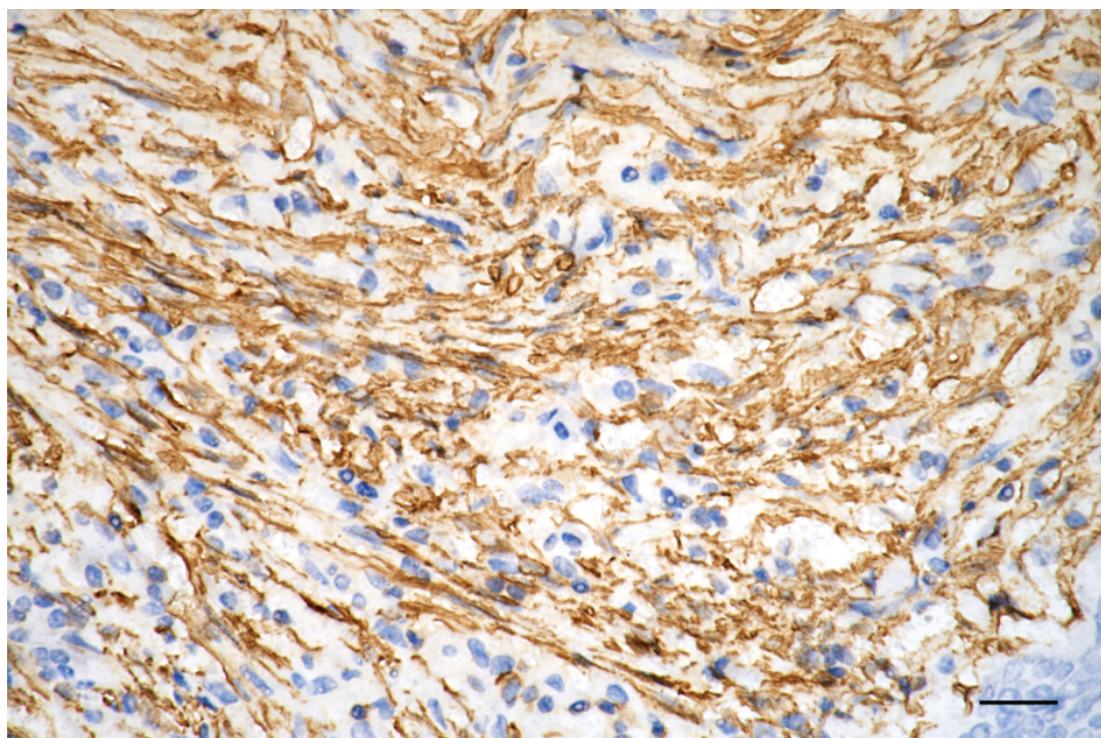
ORDERS

SALES@GENUINBIOTECH.COM
FAX: +1-540-855-7041

WWW.GENUINBIOTECH.COM



Western blotting analysis using anti-alpha smooth muscle Actin antibody (Cat#4018). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-alpha smooth muscle Actin antibody (Cat#4018, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).



Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using anti-alpha smooth muscle actin antibody (Cat#4018, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40 \times objective). Scale bar: 25 μ m.

SUPPORT

SUPPORT@GENUINBIOTECH.COM
TEL: +1-540-855-7041

ORDERS

SALES@GENUINBIOTECH.COM
FAX: +1-540-855-7041

WWW.GENUINBIOTECH.COM

Anti-alpha smooth muscle Actin Recombinant Rabbit Monoclonal Antibody

PAGE 4

SUPPORT

SUPPORT@GENUINBIOTECH.COM
TEL: +1-540-855-7041

ORDERS

SALES@GENUINBIOTECH.COM
FAX:+1-540-855-7041

WWW.GENUINBIOTECH.COM