BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Alpha-Smooth Muscle Actin ACTA2 Antibody (Monoclonal, 35A57)

Catalog Number: M01072-7

About ACTA2

Ueyama et al. (1990) assigned the ACTSA gene to chromosome 10 by Southern blot analysis of DNAs from 18 rodent-human somatic cell hybrids. Regional mapping by in situ hybridization localized the gene to 10q22-q24.Assignment of the vascular smooth muscle actin gene ACTSA to human chromosome. Smooth muscle alpha-actin gene requires two E-boxes for proper expression in vivo and is a target of class I basic helix-loop-helix proteins.

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Overview

Product Name	Anti-Alpha-Smooth Muscle Actin ACTA2 Antibody (Monoclonal, 35A57)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Alpha-Smooth Muscle Actin ACTA2 Antibody (Monoclonal, 35A57) catalog # MA1106. Tested in IF, IHC, IHC-F, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, IHC-F, WB
Clonality	Monoclonal 35A57
Formulation	Mouse IgG in stabilizing components, 1.2% sodium acetate and 0.01mg NaN3. This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P62738

Technical Details

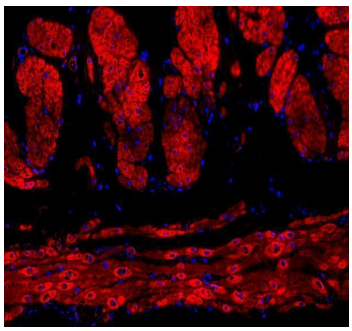
Immunogen	N-terminal synthetic decapeptide of alpha-smooth muscle actin.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western

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	blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P) and IHC(F).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Mouse IgG2a
Form	Lyophilized
Concentration	Adding 1 ml of PBS buffer will yield a concentration of 100 ug/ml.
Purification	Ascites
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, mouse, rat Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human, mouse, rat Immunohistochemistry (Frozen Section), 2-5ug/ml, Human, mouse, rat, Immunofluorescence, 5 ug/ml, Human, Rat

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Anti-Alpha-Smooth Muscle Actin ACTA2 Antibody (Monoclonal, 35A57) (M01072-7) Images



IF analysis of Alpha-Smooth Muscle Actin using anti-Alpha-Smooth Muscle Actin antibody (M01072-7). Alpha-Smooth Muscle Actin was detected in a paraffin-embedded section of normal human uterine smooth muscle tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL mouse anti-Alpha-Smooth Muscle Actin Antibody (M01072-7) overnight at 4°C. Cy3 Conjugated Goat Anti-Mouse IgG (BA1031) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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