Alpha smooth muscle actin specific Monoclonal antibody, PBS Only

Catalog Number:67735-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
67735-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

GenBank Accession Number:
NM_001613

GeneID (NCBI):
59

UNIPROT ID:
P62736

Full Name:
actin, alpha 2, smooth muscle, aorta

Calculated MW:
42 kDa

Observed MW:
42 kDa

Purification Method:
Protein G purification

CloneNo.:
1E9A11

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, IF-Fro, FC (Intra), ELISA

Species Specificity:
human, mouse, rat, pig, rabbit

Background Information

ACTA2 (also known as α-smooth muscle actin or α-SMA) belongs to the actin family. Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. ACTA2 is primarily expressed in vascular smooth muscle and anti-ACTA2 is commonly used to marker smooth muscle cells.
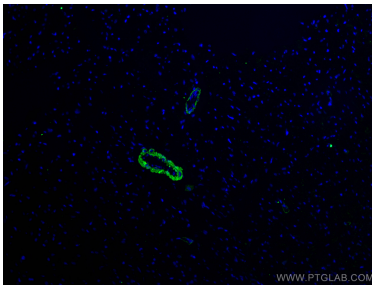
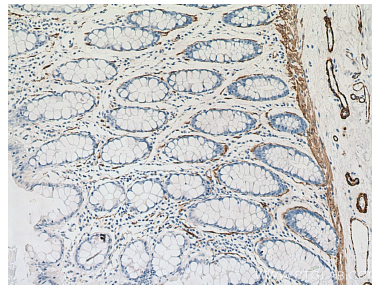## Storage

Storage:
Store at -80℃.
Storage Buffer:
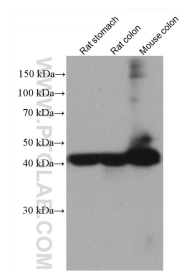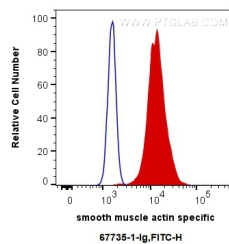PBS Only

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Immunofluorescent analysis of (4% PFA) fixed rat heart tissue using a-SMA specific antibody (67735-1-Ig, Clone: 1E9A11) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 67735-1-PBS in a different storage buffer formulation.
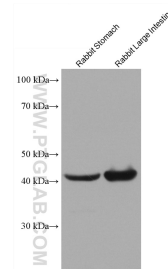

Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 67735-1-Ig (a-SMA specific antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67735-1-PBS in a different storage buffer formulation.
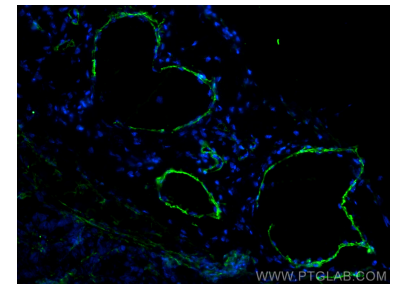

Various lysates were subjected to SDS PAGE followed by western blot with 67735-1-Ig (a-SMA specific antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67735-1-PBS in a different storage buffer formulation.

1X10^6 C2C12 cells were intracellularly stained with 0.4 ug Anti-Human smooth muscle actin specific (67735-1-Ig, Clone:1E9A11) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 67735-1-PBS in a different storage buffer formulation.

Various lysates were subjected to SDS PAGE followed by western blot with 67735-1-Ig (smooth muscle actin specific antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67735-1-PBS in a different storage buffer formulation.
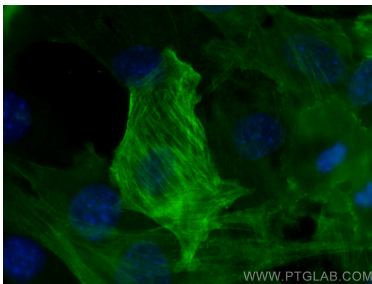

Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse breast cancer using Alpha smooth muscle actin specific antibody (67735-1-Ig, Clone: 1E9A11) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 67735-1-PBS in a different storage buffer formulation.

Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using smooth muscle actin specific antibody (67735-1-Ig, Clone: 1E9A11) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 67735-1-PBS in a different storage buffer formulation.