For Research Use Only

Alpha smooth muscle actin specific Monoclonal antibody

Catalog Number:67735-1-lg 187 Publications



| Basic Information | Catalog Number: 67735-1-lg | GenBank Accession Number: NM_001613 | | Purification Method: Protein A purification | |
|------------------------|--|---|---------------------|--|--|
| | Size: | GenelD (NCE | BI): | CloneNo.: 1E9A11 | |
| | 150ul , Concentration: 500 ug/ml by | 59 | | | |
| | Nanodrop; | UNIPROT ID: P62736 Full Name: actin, alpha 2, smooth muscle, aorta | | Recommended Dilutions: WB: 1:20000-1:100000 IHC: 1:2500-1:10000 IF-P: 1:200-1:800 IF-Fro: 1:200-1:800 | |
| | Source: | | | | |
| | Mouse | | | | |
| | Isotype: IgG1 | | | | |
| | igui | Calculated M | 1W: | IF/ICC: 1:200-1:800 | |
| | | 42 kDa | | FC (Intra): 0.40 ug per 10^6 cells in a | |
| | | Observed MW: 42 kDa | | 100 µl suspension | |
| Applications | Cited Applications:tissue, pig stWB, IHC, IF, CoIPpig colon tissSpecies Specificity:IHC : humanhuman, mouse, rat, pig, rabbithuman liverCited Species:colon tissue | | rols: | | |
| | | | WB : rat stoma | WB : rat stomach tissue, rabbit stomach tissue, pig vei tissue, pig stomach tissue, rabbit large intestine tissue pig colon tissue, rat colon tissue, mouse colon tissue IHC : human colon tissue, human appendicitis tissue, human liver tissue, human liver cancer tissue, rat colon tissue IF-P : rat heart tissue, | |
| | | | | | |
| | | | | | |
| | | | colon tissue | | |
| | | | IF-P : rat heart | | |
| | Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | | | IF-Fro : mouse breast cancer, | |
| | | | n IF/ICC : C2C1 | IF/ICC : C2C12 cells, | |
| | | | FC (Intra) : C2 | FC (Intra) : C2C12 cells, | |
| Background Information | ACTA2 (also known as a-smooth muscle actin or a-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. | | | | |
| Notable Publications | Author Pu | ıbmed ID | Journal | Application | |
| | Longxiang Tu 34 | 546211 | Plast Reconstr Surg | WB | |
| | Silvia Speca 34 | 529707 | PLoS One | WB,IF | |
| | Ji-Ting Liu 34 | 604241 | Front Cell Dev Biol | WB | |
| Storage | Storage: Store at -20°C. Stable for one year af Storage Buffer: PBS with 0.02% sodium azide and 50 | | 17.3 | | |
| | Aliquoting is unnecessary for -20 $^{\circ}$ C s | | | | |

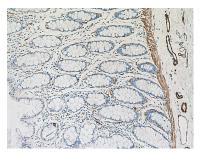
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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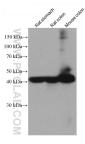
Selected Validation Data



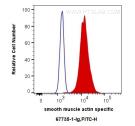
Immunofluorescent analysis of (4% PFA) fixed rat heart tissue using a-SMA specific antibody (67735-1-Ig, Clone: 1E9A11) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



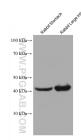
Immunohistochemical analysis of paraffinembedded human colon tissue slide using 67735-1-Ig (a-SMA specific antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



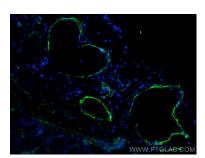
Various lysates were subjected to SDS PAGE followed by western blot with 67735-1-1g (a-SMA specific antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



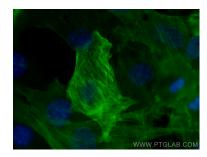
1X10^6 C2C12 cells were intracellularly stained with 0.4 ug Anti-Human smooth muscle actin specific (67735-1-Ig, Clone:1E9A11) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Various Lysates were subjected to SDS PAGE followed by western blot with 67735-1-1g (smooth muscle actin specific antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse breast cancer using Alpha smooth muscle actin specific antibody (67735-1-1g, Clone: 1E9A11) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).



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).