

# CoraLite®594-conjugated smooth muscle actin specific Monoclonal antibody

Catalog Number: **CL594-67735**

## Basic Information

Catalog Number: CL594-67735	GenBank Accession Number: NM_001613	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 59	CloneNo.: 1E9A11
Source: Mouse	UNIPROT ID: P62736	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG1	Full Name: actin, alpha 2, smooth muscle, aorta	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
	Calculated MW: 42 kDa	
	Observed MW: 42 kDa	

## Applications

Tested Applications: FC (Intra), IF-P	Positive Controls: IF : mouse heart tissue,
Species Specificity: Human, mouse, rat, pig	

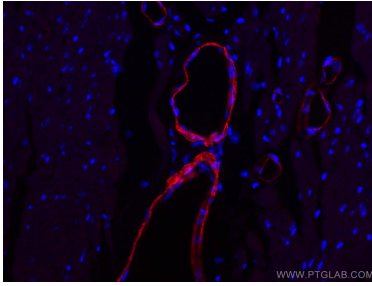
## Background Information

ACTA2 (also known as  $\alpha$ -smooth muscle actin or  $\alpha$ -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.

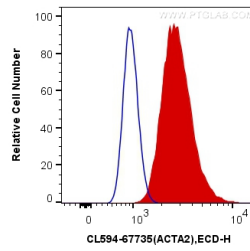
## Storage

Storage:  
Store at -20°C. Avoid exposure to light.  
Storage Buffer:  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using CoraLite®594 smooth muscle actin specific antibody (CL594-67735, Clone: 1E9A11 ) at dilution of 1:100.



1X10<sup>6</sup> C2C12 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human smooth muscle actin specific (CL594-67735, Clone:1E9A11) (red), or 0.4 ug Mouse IgG1 Isotype Control (CL594-66360, Clone: T1F8D3F10) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).