

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

Catalog Number: **CL594-67735**

## Basic Information

<b>Catalog Number:</b> CL594-67735	<b>GenBank Accession Number:</b> NM_001613	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 59	<b>CloneNo.:</b> 1E9A11
<b>Source:</b> Mouse	<b>Full Name:</b> actin, alpha 2, smooth muscle, aorta	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 42 kDa	<b>Excitation/Emission maxima wavelengths:</b> 593 nm / 614 nm
	<b>Observed MW:</b> 42 kDa	

## Applications

<b>Tested Applications:</b> FC (Intra), IF	<b>Positive Controls:</b> IF : mouse heart tissue,
<b>Species Specificity:</b> Human, mouse, rat, pig	

## Background Information

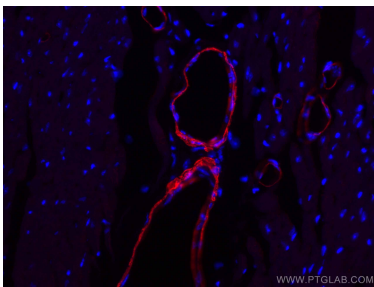
ACTA2 (also known as  $\alpha$ -smooth muscle actin or  $\alpha$ -SMA) belongs to the actin family. Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. ACTA2 is primarily expressed in vascular smooth muscle and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

## Storage

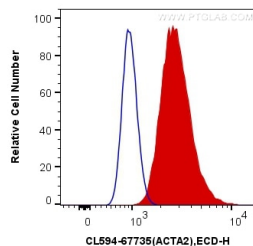
**Storage:**  
Store at -20°C. Avoid exposure to light.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

## 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).