

# CoraLite® Plus 488-conjugated smooth muscle actin specific Polyclonal antibody

Catalog Number: **CL488-55135**

## Basic Information

Catalog Number: CL488-55135	GenBank Accession Number: NM_001613	Purification Method: Antigen affinity purification
Size: 1000 µg/ml	GeneID (NCBI): 59	Recommended Dilutions: IF 1:50-1:500
Source: Rabbit	UNIPROT ID: P62736	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Isotype: IgG	Full Name: actin, alpha 2, smooth muscle, aorta	
	Calculated MW: 42 kDa	
	Observed MW: 42 kDa	

## Applications

Tested Applications: IF-P	Positive Controls: IF : mouse heart tissue, mouse spleen tissue
Species Specificity: human, mouse, rat	

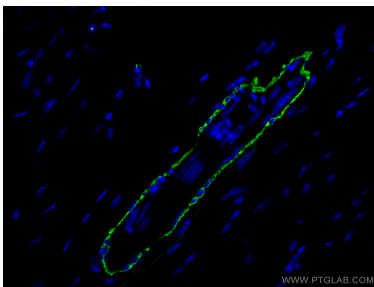
## Background Information

ACTA2, also named as  $\alpha$ -SMA, AAT6; ACTSA 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. Defects in ACTA2 are the cause of aortic aneurysm familial thoracic type 6 (AAT6). The immunogen of this antibody is a specific domain of ACTA2. This antibody stains the aorta only.

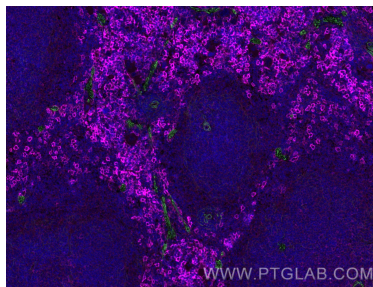
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**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® Plus 488 smooth muscle actin-specific antibody (CL488-55135) at dilution of 1:200.



Immunofluorescent analysis of (4% PFA) fixed mouse spleen tissue using CoraLite® Plus 488 smooth muscle actin specific antibody (CL488-55135) at dilution of 1:200, F4/80 antibody (28463-1-AP, Magenta).