For Research Use Only

## CoraLite®594-conjugated ACTC1-specific Monoclonal antibody

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Antibodies | ELISA kits | Proteins
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Catalog Number: CL594-66125

Basic Information

Catalog Number: GenBank Accession Number: Purification Method: NM\_005159

Catalog Number: GenBank Accession Number: Purification Method: Protein G purification

Size:GeneID (NCBI):CloneNo.:100ul , Concentration: 1000 ug/ml by 701F2B9

Nanodrop; UNIPROT ID: Recommended Dilutions:

Source: P68032 IF-P 1:50-1:500

Mouse Full Name: Excitation/Emission maxima

Isotype: actin, alpha, cardiac muscle 1 wavelengths:

IgG1 Calculated MW: 588 nm / 604 nm

42 kDa

Applications Tested Applications: Positive Controls:

IF-P, FC (Intra)

IF-P: mouse heart tissue,

Species Specificity: human, mouse, rat, pig

## **Background Information**

Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. The ACTC1 gene encodes cardiac muscle alpha-actin, the predominant actin isoform in adult heart, which interacts with a variety of proteins to produce the force for muscle contraction. This antibody is specific to the ACTC1. It does not cross-react with other actin isoforms. The antibody is conjugated with CL594, Ex/Em 593 nm/614 nm.

Storage

Storage:

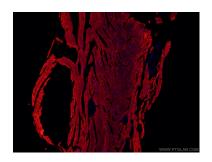
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer

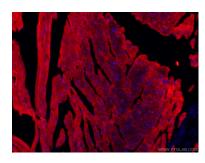
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

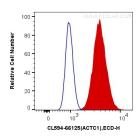
## **Selected Validation Data**



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using CL594-66125 (ACTC1-specific antibody) at dilution of 1:100.



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1X10^6 C2C12 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human ACTC1-specific (CL594-66125, Clone:1F2B9) (red), or 0.4 ug Mouse 1gG1 Isotype Control (CL594-66360, Clone: T1F8D3F10) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).