

ACTC1-specific Monoclonal antibody

Catalog Number: 66125-1-Ig

8 Publications

Basic Information

Catalog Number:

66125-1-Ig

Size:

747 µg/ml

Source:

Mouse

Isotype:

IgG1

GenBank Accession Number:

NM_005159

GeneID (NCBI):

70

UNIPROT ID:

P68032

Full Name:

actin, alpha, cardiac muscle 1

Calculated MW:

42 kDa

Observed MW:

42 kDa

Purification Method:

Protein A purification

CloneNo.:

1F2B9

Recommended Dilutions:

WB 1:2500-1:10000

IHC 1:100-1:400

IF 1:200-1:800

Applications

Tested Applications:

FC, IF-P, IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, pig, rat

Cited Species:

human, rat, mouse, rabbit

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human heart tissue, pig heart tissue, rat heart tissue, mouse heart tissue

IHC : human heart tissue, human heart and human skeletal muscle tissue

IF : mouse heart tissue,

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Jiang Yan	36087696	Eur J Pharmacol	WB, IF
Muyao Ye	34642907	Immunol Res	WB
Eric E Abrahamson	36411500	Amyloid	IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

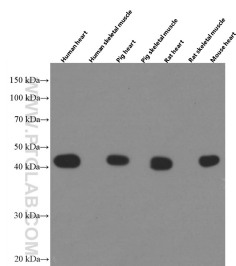
For technical support and original validation data for this product please contact:

T: 4006900926

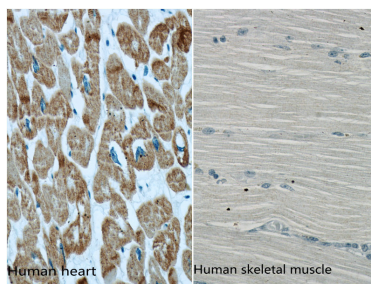
E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

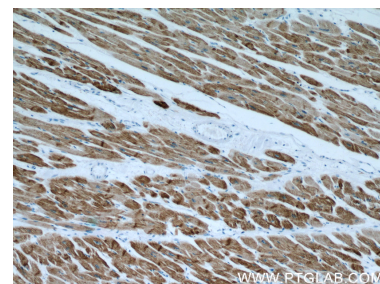
Selected Validation Data



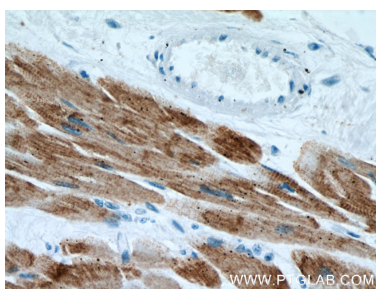
Various lysates were subjected to SDS PAGE followed by western blot with 66125-1-Ig (ACTC1-specific antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



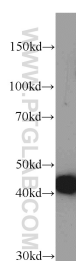
Immunohistochemical analysis of paraffin-embedded human heart and human skeletal muscle using 66125-1-Ig (ACTC1 specific antibody) at dilution 1:500. (under 40x lens).



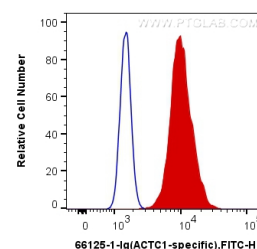
Immunohistochemical analysis of paraffin-embedded human heart using 66125-1-Ig (ACTC1-specific antibody) at dilution of 1:200 (under 10x lens).



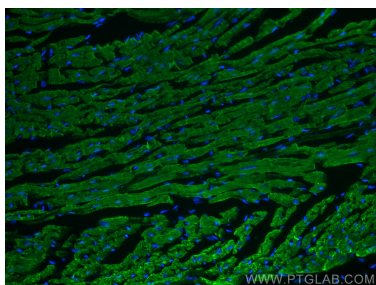
Immunohistochemical analysis of paraffin-embedded human heart using 66125-1-Ig (ACTC1-specific antibody) at dilution of 1:200 (under 40x lens).



human heart tissue were subjected to SDS PAGE followed by western blot with 66125-1-Ig (ACTC1-specific antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



1X10⁶ C2C12 cells were intracellularly stained with 0.4 ug Anti-Human ACTC1-specific (66125-1-Ig, Clone:1F2B9) 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).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using ACTC1-specific antibody (66125-1-Ig, Clone: 1F2B9) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).