

For Research Use Only

ACTC1-specific Monoclonal antibody



Catalog Number: 66125-1-Ig **3 Publications**

Basic Information

Catalog Number: 66125-1-Ig	GenBank Accession Number: NM_005159	Purification Method: Protein G purification
Size: 150ul , Concentration: 747 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 70	CloneNo.: 1F2B9
Source: Mouse	Full Name: actin, alpha, cardiac muscle 1	Recommended Dilutions: WB 1:2500-1:10000 IHC 1:100-1:400 IF 1:50-1:500
Isotype: IgG1	Calculated MW: 42 kDa	
	Observed MW: 42 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : human heart tissue, IHC : human heart tissue, human heart and human skeletal muscle tissue IF : mouse heart tissue,
Cited Applications: IHC, WB	
Species Specificity: human, mouse, pig, rat	
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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
Muyao Ye	34642907	Immunol Res	WB
Longyang Liu	35223984	Front Mol Biosci	IHC
Sumei Cui	30371213	J Am Heart Assoc	WB

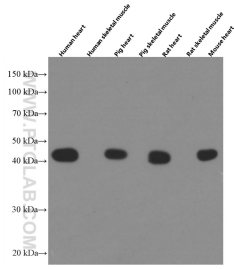
Storage

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

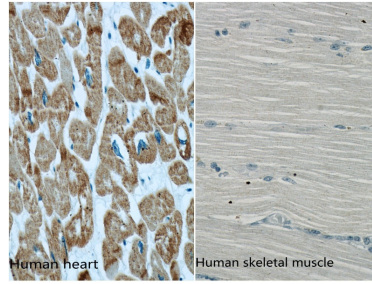
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

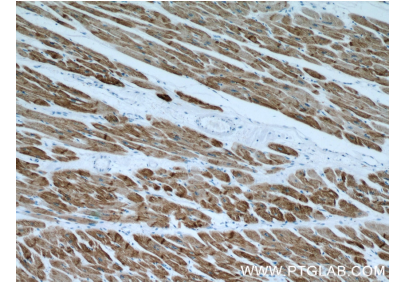
Selected Validation Data



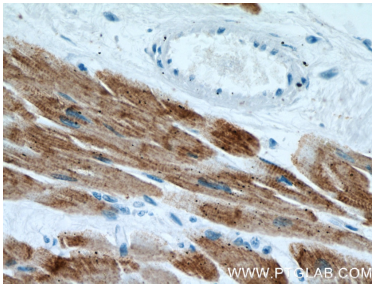
Various lysates were subjected to SDS PAGE followed by western blot with 66125-1-Ig (ACTC1-specific antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



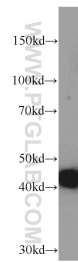
Immunohistochemical analysis of paraffin-embedded human heart and human skeletal muscle using 66125-1-Ig (ACTC1 specific antibody) at dilution 1:500. (under 40x lens).



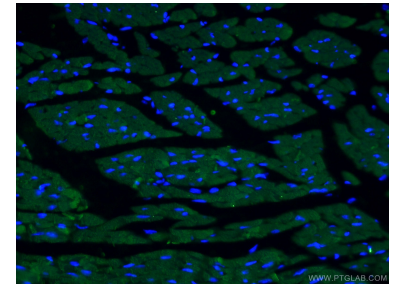
Immunohistochemical analysis of paraffin-embedded human heart using 66125-1-Ig (ACTC1-specific antibody) at dilution of 1:200 (under 10x lens).



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.



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 66125-1-Ig (ACTC1-specific antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).