

For Research Use Only

ACTC1-specific Monoclonal antibody, PBS Only

Catalog Number: 66125-1-PBS



Basic Information

Catalog Number: 66125-1-PBS	GenBank Accession Number: NM_005159	Purification Method: Protein A purification
Size: 100ug , Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 70	CloneNo.: 1F2B9
Source: Mouse	UNIPROT ID: P68032	
Isotype: IgG1	Full Name: actin, alpha, cardiac muscle 1	
	Calculated MW: 42 kDa	
	Observed MW: 42 kDa	

Applications

Tested Applications:
WB, IHC, IF-P, IF-Fro, FC (Intra), Indirect ELISA

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.

Storage

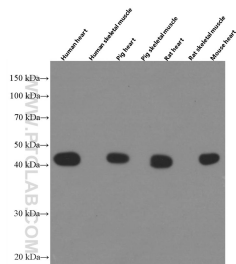
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

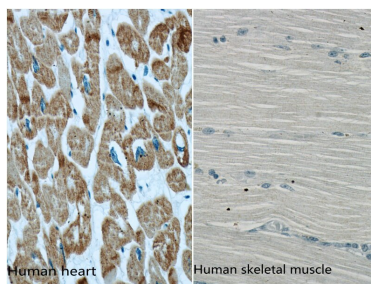
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

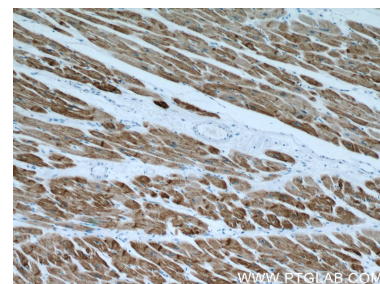
Selected Validation Data



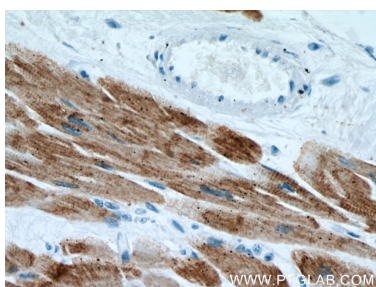
Various lysates were subjected to SDS PAGE followed by western blot with 66125-1-Ig (ACTC1-specific antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66125-1-PBS in a different storage buffer formulation.



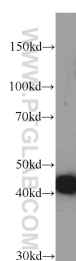
Immunohistochemical analysis of paraffin-embedded human heart and human skeletal muscle using 66125-1-Ig (ACTC1 specific antibody) at dilution 1:500. (under 40x lens). This data was developed using the same antibody clone with 66125-1-PBS in a different storage buffer formulation.



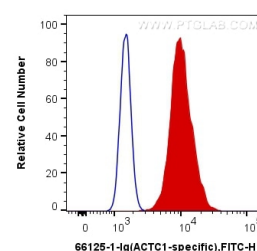
Immunohistochemical analysis of paraffin-embedded human heart using 66125-1-Ig (ACTC1-specific antibody) at dilution of 1:200 (under 10x lens). This data was developed using the same antibody clone with 66125-1-PBS in a different storage buffer formulation.



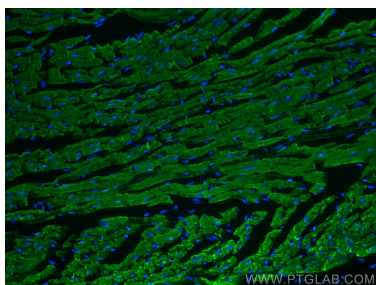
Immunohistochemical analysis of paraffin-embedded human heart using 66125-1-Ig (ACTC1-specific antibody) at dilution of 1:200 (under 40x lens). This data was developed using the same antibody clone with 66125-1-PBS in a different storage buffer formulation.



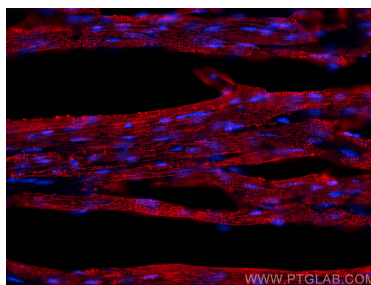
human heart tissue were subjected to SDS PAGE followed by western blot with 66125-1-Ig (ACTC1-specific antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66125-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66125-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66125-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse heart tissue using ACTC1-specific antibody (66125-1-Ig, Clone: 1F2B9) at dilution of 1:800 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM004). This data was developed using the same antibody clone with 66125-1-PBS in a different storage buffer formulation.