

# ACTA1-Specific Polyclonal antibody

Catalog Number: 17521-1-AP

11 Publications

## Basic Information

## Catalog Number:

17521-1-AP

## Size:

260 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## GenBank Accession Number:

NM\_001100

## GeneID (NCBI):

58

## UNIPROT ID:

P68133

## Full Name:

actin, alpha 1, skeletal muscle

## Calculated MW:

42 kDa

## Observed MW:

39-42 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

## Applications

## Tested Applications:

WB, IHC, FC (Intra), ELISA

## Cited Applications:

WB, IF

## Species Specificity:

human, mouse, rat

## Cited Species:

human, mouse, rat

**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 skeletal muscle tissue, mouse skeletal muscle tissue, rat skeletal muscle tissue

**IHC** : human skeletal muscle tissue, human hysterosarcoma 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 ACTA1 gene encodes skeletal muscle alpha-actin, the principal actin isoform in adult skeletal muscle, which interacts with a variety of proteins to produce the force for muscle contraction. There is only the N-terminal 8 amino acids difference among the actin family members. This antibody is specific to the ACTA1. It does not cross-react with other actin isoforms.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hongyi Zhou	34502418	Int J Mol Sci	WB
Qing Wang	34786834	J Cell Mol Med	WB
Yongqiang Ai	34149411	Front Pharmacol	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

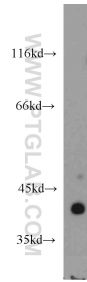
For technical support and original validation data for this product please contact:

T: 4006900926

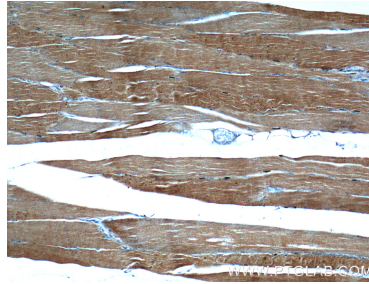
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

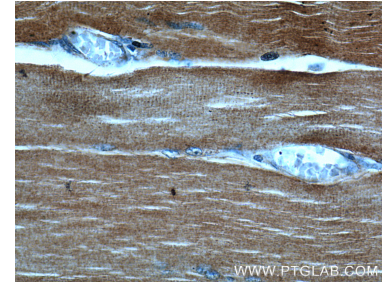
## Selected Validation Data



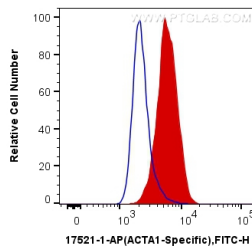
human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 17521-1-AP (ACTA1-Specific antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 17521-1-AP (ACTA1-Specific Antibody) at dilution of 1:500 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 17521-1-AP (ACTA1-Specific Antibody) at dilution of 1:500 (under 40x lens).



1X10<sup>6</sup> C2C12 cells were intracellularly stained with 0.4 ug Anti-Human ACTA1-Specific (17521-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit 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).