



## Rabbit anti Actin, skeletal muscle Polyclonal Antibody

Alternative Name(s): ACTA1

### Order Information

- **Description:** Actin, skeletal muscle
- **Catalogue:** 500-3884
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Rt, Rb, Gp

### **ANTIGEN PREPARATION**

A synthetic peptide derived from N-terminus of human alpha skeletal muscle isoforms of actin.

### **BACKGROUND**

The Actin protein, a component of the eukaryotic cytoskeleton, is highly conserved between multiple species. This ubiquitous protein involved in the formation of filaments that are a major component of the cytoskeleton. Interaction with myosin provides the basis of muscular contraction and many aspects of cell motility. The levels of the Actin protein may vary between different cell types, but are consistent within a given cell type, and for this reason, Actin protein levels are considered an internal control for protein loading.

### **PURIFICATION**

The Rabbit IgG is purified by Epitope Affinity Purification

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes actin skeletal muscle specific protein. It cross-reacts to human, mouse, rat, chicken, bovine etc. It does not react to smooth muscle actin.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ . The antibodies can be stored at  $2^{\circ}\text{C}$ - $8^{\circ}\text{C}$  for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

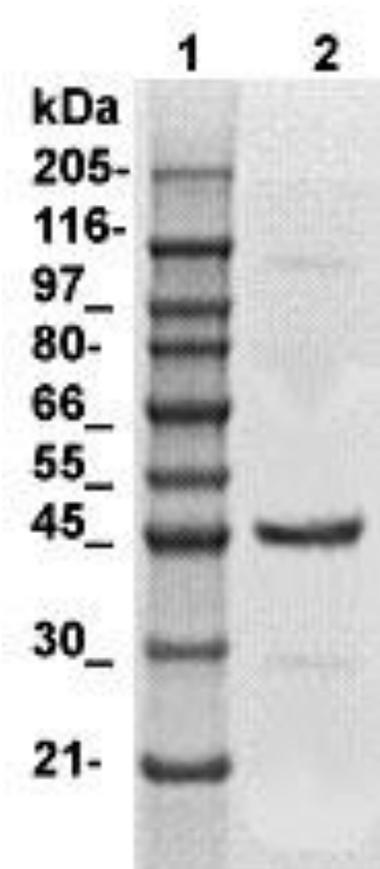
- Western Blot: 0.1-1  $\mu\text{g}/\text{ml}$
- ELISA: 0.01-0.1  $\mu\text{g}/\text{ml}$
- Immunoprecipitation: 2-5  $\mu\text{g}/\text{ml}$
- IHC: 2-10  $\mu\text{g}/\text{ml}$
- Flow cytometry: Not tested
- Molecular Weight: 42.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

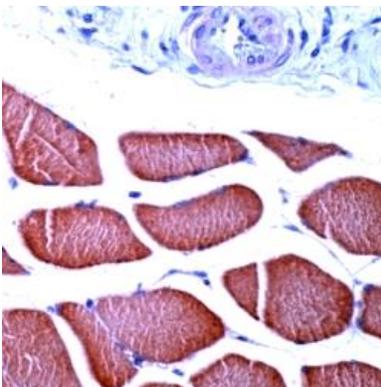
### **FOR RESEARCH USE ONLY.**

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA  
1 408-573-1898 (Tel). 1 408-573-1858 (Fax). [www.abbomax.com](http://www.abbomax.com) [info@abbomax.com](mailto:info@abbomax.com)

**DATA ATTACHMENTS**



Western Blot: Tissue lysate from Mouse skeletal muscle was resolved onto 12% SDS-PAGE and transferred onto NC Membrane, then probed by Anti-Actin antibody (skeletal muscle specific ; Cat# 500-3884) at 1:500 (Lane 2). An immunoreactive protein at ~42 kDa was observed.



Immunohistochemistry: Skeletal muscle tissue (FFPE) stained with Rabbit Anti-Actin antibody, (Cat# 500-3884) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

**REFERENCES**

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