

**Anti-Actin Antibody**  
Catalog # ABO10649

**Specification**

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**Anti-Actin Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P63261</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Liquid

**Description**

Rabbit IgG polyclonal antibody for Actin, cytoplasmic 2(ACTG1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Anti-Actin Antibody - Additional Information**

**Gene ID** 71

**Other Names**

Actin, cytoplasmic 2, Gamma-actin, Actin, cytoplasmic 2, N-terminally processed, ACTG1, ACTG

**Calculated MW**

41793 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat<br><br>Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

**Subcellular Localization**

Cytoplasm, cytoskeleton.

**Protein Name**

Actin, cytoplasmic 2

**Contents**

Each vial contains 50% glycerol, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>. Carrier free (No BSA) form available in stock. If you want this antibody carrier free please specify "Carrier Free" or "No BSA" in your order note. "

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Actin(365-375aa SGPSIVHRKCF), identical to the related mouse and rat sequences.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

Storage

**At -20°C for one year, at 4°C for one month. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the actin family.

**Anti-Actin Antibody - Protein Information**

**Name** ACTG1

**Synonyms** ACTG

**Function**

Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

**Cellular Location**

Cytoplasm, cytoskeleton

**Anti-Actin Antibody - Protocols**

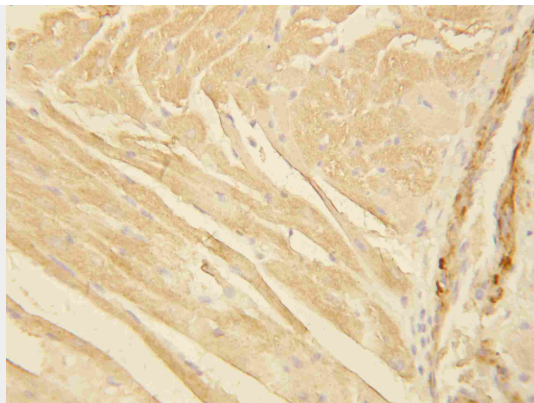
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

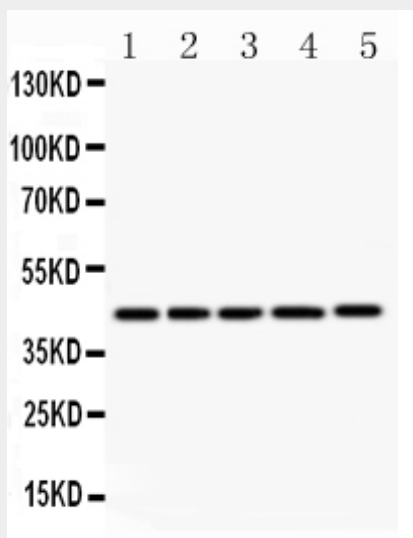
**Anti-Actin Antibody - Images**



Anti-Actin antibody, ABO10649, Western blotting  
Lane 1: Rat Cardiac Muscle Tissue Lysate  
Lane 2: Rat Brain Tissue Lysate  
Lane 3: Rat Testis Tissue Lysate  
Lane 4: Rat Skeletal Muscle Tissue Lysate  
Lane 5: MM231 Cell Lysate  
Lane 6: HELA Cell Lysate  
Lane 7: SMMC Cell Lysate  
Lane 8: HT1080 Cell Lysate  
Lane 9: SW620 Cell Lysate



Anti-Actin antibody, ABO10649, IHC(P)IHC(P): Rat Cardiac Muscle Tissue



Anti-Actin antibody, ABO10649, IHC(P)All lanes: Anti -Actin (ABO10649) at 0.5ug/mlLane 1: Mouse Brain Tissue Lysate at 50ugLane 2: Mouse Spleen Tissue Lysate at 50ugLane 3: Mouse Thymus Tissue Lysate at 50ugLane 4: HEPA Whole Cell Lysate at 40ugLane 5: NIH3T3 Whole Cell Lysate at 40ugPredicted bind size: 42KDObserved bind size: 42KD

### Anti-Actin Antibody - Background

Actin, a highly conserved protein, is a major component of both the cytoskeletal and contractile structures in the cell types. It varies in amount, being related to the type of differentiation and to the functional state of cells and tissues. The actins exhibit over 90% sequence homology, but each isoform has a unique NH<sub>2</sub>-terminal sequence. The isoforms are comprised of three alpha-actin, one beta-actin, two gamma-actin. Because the amino acid sequence of the C-terminal is the same for almost all actins, this antibody has been raised using a synthetic peptide corresponding to the C-terminal 11 residues.