

**Anti-beta Actin Mouse Monoclonal Antibody**  
Catalog # ABO15135

**Specification**

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**Anti-beta Actin Mouse Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC
Primary Accession	<a href="#">P60709</a>
Host	Mouse
Isotype	IgG1
Reactivity	Rat, Human, Mouse, Rabbit, Chicken
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-beta Actin Mouse Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat, Chicken, Rabbit.

**Anti-beta Actin Mouse Monoclonal Antibody - Additional Information**

**Gene ID** 60

**Other Names**

Actin, cytoplasmic 1, 3.6.4.-, Beta-actin, Actin, cytoplasmic 1, N-terminally processed, ACTB

**Calculated MW**

42 kDa KDa

**Application Details**

WB 1:3000-1:10000<br>IHC 1:100-1:200<br>ICC/IF 1:100-1:200

**Contents**

Mouse IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human beta Actin

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-beta Actin Mouse Monoclonal Antibody - Protein Information**

**Name** ACTB

### Function

Actin is a highly conserved protein that polymerizes to produce filaments that form cross-linked networks in the cytoplasm of cells (PubMed:<a href="http://www.uniprot.org/citations/25255767" target="\_blank">25255767</a>, PubMed:<a href="http://www.uniprot.org/citations/29581253" target="\_blank">29581253</a>). Actin exists in both monomeric (G-actin) and polymeric (F-actin) forms, both forms playing key functions, such as cell motility and contraction (PubMed:<a href="http://www.uniprot.org/citations/29581253" target="\_blank">29581253</a>). In addition to their role in the cytoplasmic cytoskeleton, G- and F- actin also localize in the nucleus, and regulate gene transcription and motility and repair of damaged DNA (PubMed:<a href="http://www.uniprot.org/citations/29925947" target="\_blank">29925947</a>). Part of the ACTR1A/ACTB filament around which the dynactin complex is built. The dynactin multiprotein complex activates the molecular motor dynein for ultra-processive transport along microtubules (By similarity).

### Cellular Location

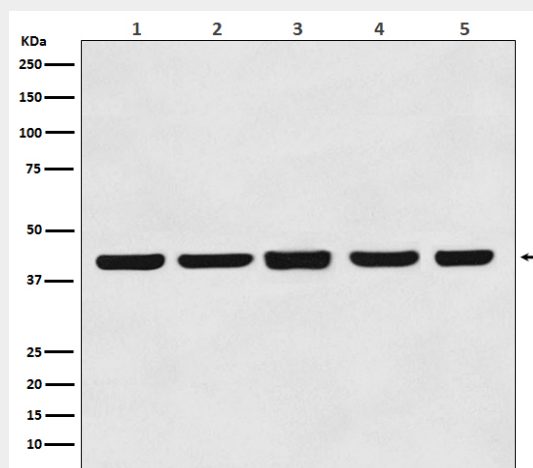
Cytoplasm, cytoskeleton. Nucleus Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

### Anti-beta Actin Mouse Monoclonal Antibody - Protocols

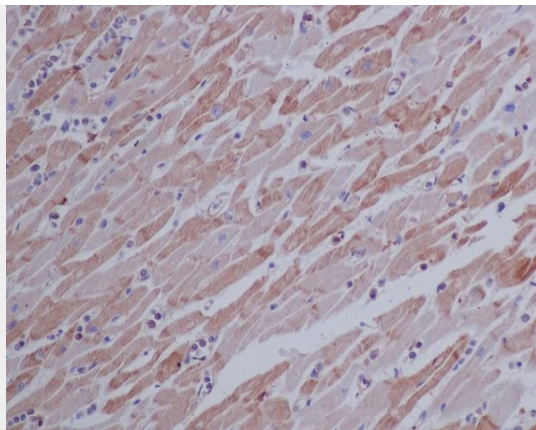
Provided below are standard protocols that you may find useful for product applications.

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

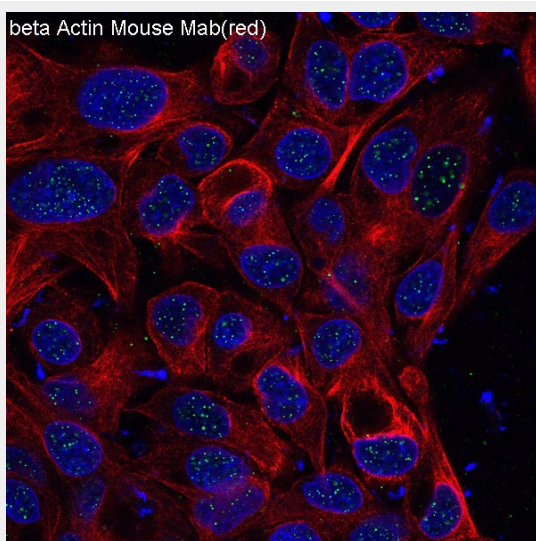
### Anti-beta Actin Mouse Monoclonal Antibody - Images



Western blot analysis of beta Actin expression in (1) Hela cell lysate; (2) Rat brain lysate; (3) Mouse brain lysate; (4) Chicken lung lysate; (5) Rabbit testis lysate with beta Actin mouse mAb



Immunohistochemical analysis of paraffin-embedded human heart, using beta Actin Mouse Monoclonal Antibody.



Immunofluorescent analysis of HepG2 cells, using beta Actin mAb.