

beta Actin Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP53270

Specification

beta Actin Antibody - Product Information

| | |
|-------------------|-------------------------------------|
| Application | WB |
| Primary Accession | P60709 |
| Reactivity | Human, Mouse, Neisseria Gonorrhoeae |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | IgG3 |
| Calculated MW | 45 KDa |

beta Actin Antibody - Additional Information

Gene ID 60

Other Names

A X actin like protein;ACTB;ACTB_HUMAN;Actin;Actin cytoplasmic 1;Actx;b actin;b-actin;Beta cytoskeletal actin;Beta-actin;cytoplasmic 1;Melanoma X actin;N-terminally processed;PS1TP5 binding protein 1;PS1TP5BP1.

Dilution

WB~~1:1500

Format

Purified mouse monoclonal in PB(pH 7.4) containing with 0.09% (W/V) sodium azide,50% glycerol and 1mg/ml BSA.

Storage

Store at -20 °C.Stable for 12 months from date of receipt

beta Actin 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: [25255767](http://www.uniprot.org/citations/25255767), PubMed: [29581253](http://www.uniprot.org/citations/29581253)). Actin exists in both monomeric (G-actin) and polymeric (F-actin) forms, both forms playing key functions, such as cell motility and contraction (PubMed: [29581253](http://www.uniprot.org/citations/29581253)). 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: [29925947](http://www.uniprot.org/citations/29925947)). 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

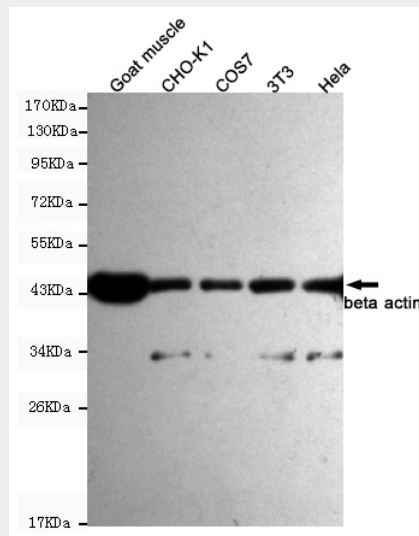
Cytoplasm, cytoskeleton. Nucleus Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

beta 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](#)

beta Actin Antibody - Images



Western blot detection of beta actin in HeLa, 3T3, COS7, CHO-k1 and Goat muscle cell lysates using beta actin mouse mAb (1:1500 diluted). Predicted band size: 45 kDa. Observed band size: 45 kDa.

beta Actin Antibody - Background

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

beta Actin Antibody - References

- Ponte P., et al. *Nucleic Acids Res.* 12:1687-1696(1984).
Nakajima-Iijima S., et al. *Proc. Natl. Acad. Sci. U.S.A.* 82:6133-6137(1985).
Ohmori H., et al. *J. Cell Biol.* 116:933-941(1992).
Hillier L.W., et al. *Nature* 424:157-164(2003).
Gevaert K., et al. *Nat. Biotechnol.* 21:566-569(2003).

