

ACTB / Beta Actin Antibody (aa359-368)
Rabbit Polyclonal Antibody
Catalog # ALS11296**Specification****ACTB / Beta Actin Antibody (aa359-368) - Product Information**

Application	WB, IHC-P, IF, E
Primary Accession	P60709
Reactivity	Human, Mouse, Rat, Hamster, Monkey, Pig, Goat, Sheep, Bovine, Guinea Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 E~~N/A

ACTB / Beta Actin Antibody (aa359-368) - Additional Information**Gene ID** 60**Other Names**

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

Target/Specificity

Amino acids 359-368 of Human beta Actin.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

ACTB / Beta Actin Antibody (aa359-368) is for research use only and not for use in diagnostic or therapeutic procedures.

ACTB / Beta Actin Antibody (aa359-368) - 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:<<http://www.uniprot.org/citations/25255767>>25255767, PubMed:<<http://www.uniprot.org/citations/29581253>>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:<<http://www.uniprot.org/citations/29581253>>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:<a

[29925947](http://www.uniprot.org/citations/29925947)). Plays a role in the assembly of the gamma-tubulin ring complex (gTuRC), which regulates the minus-end nucleation of alpha-beta tubulin heterodimers that grow into microtubule protofilaments (PubMed: [39321809](http://www.uniprot.org/citations/39321809), PubMed: [38609661](http://www.uniprot.org/citations/38609661)). Part of the ACTR1A/ACTB filament around which the dynactin complex is built (By similarity). 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.

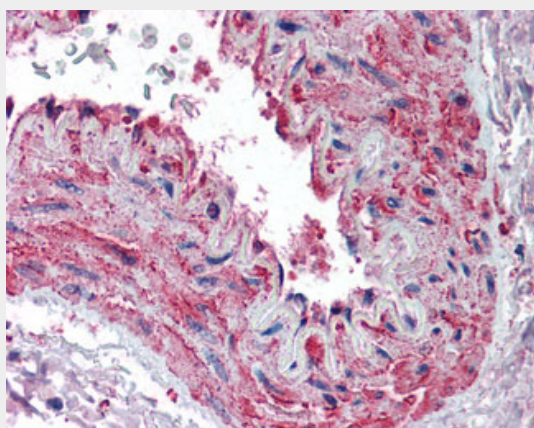
Volume

50 µl

ACTB / Beta Actin Antibody (aa359-368) - 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](#)

ACTB / Beta Actin Antibody (aa359-368) - Images

Anti-Beta Actin antibody IHC of human skeletal muscle, vessel.

ACTB / Beta Actin Antibody (aa359-368) - Background

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

ACTB / Beta Actin Antibody (aa359-368) - 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).