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ACTB / Beta Actin Antibody (aa2-16)
Rabbit Polyclonal Antibody
Catalog # ALS14596

Specification

ACTB / Beta Actin Antibody (aa2-16) - Product Information

Application	**WB**
Primary Accession	P60709
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**42kDa KDa**

ACTB / Beta Actin Antibody (aa2-16) - Additional Information

Gene ID 60

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

Target/Specificity
Amino acids 2-16 (CDDDIAALVIDNGSG) of actin protein were used as the immunogen.

Reconstitution & Storage
Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions
ACTB / Beta Actin Antibody (aa2-16) is for research use only and not for use in diagnostic or therapeutic procedures.

ACTB / Beta Actin Antibody (aa2-16) - 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: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). 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). 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.

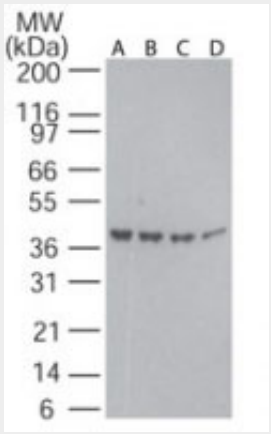
Volume
50 µl

ACTB / Beta Actin Antibody (aa2-16) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ACTB / Beta Actin Antibody (aa2-16) - Images



Western blot of beta actin in decreasing amounts of human ovary tissue lysate using antibody at...

ACTB / Beta Actin Antibody (aa2-16) - 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 (aa2-16) - 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).
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