10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ACTB / Beta Actin Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS12370

Specification

ACTB / Beta Actin Antibody (C-Terminus) - Product Information

Application	**IHC**
Primary Accession	P60709
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**42kDa KDa**

ACTB / Beta Actin Antibody (C-Terminus) - Additional Information

Gene ID 60

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

Reconstitution & Storage
Store at -20°C. Aliquot to avoid freeze/thaw cycles.

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

ACTB / Beta Actin Antibody (C-Terminus) - 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.

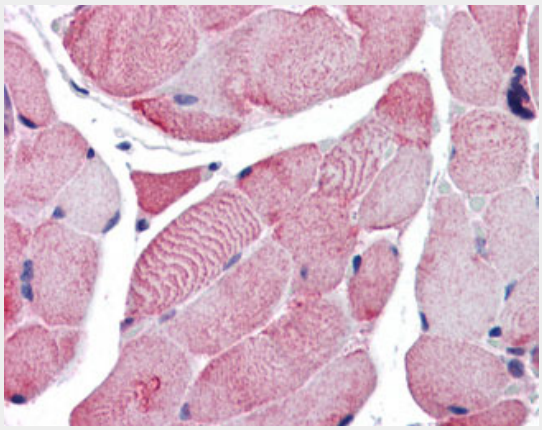
Volume
100 µl

ACTB / Beta Actin Antibody (C-Terminus) - Protocols

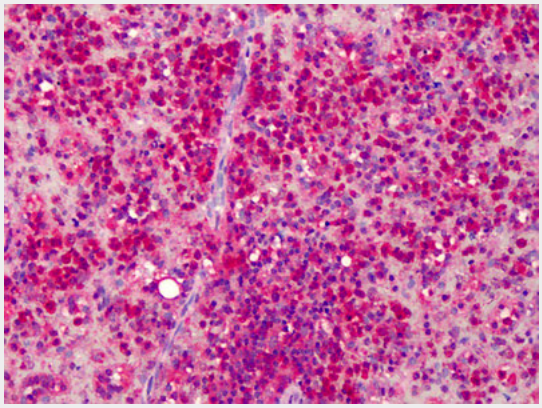
Provided below are standard protocols that you may find useful for product applications.

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

ACTB / Beta Actin Antibody (C-Terminus) - Images



Anti-Beta Actin antibody IHC of human skeletal muscle.



Anti-Beta Actin antibody IHC of human spleen.

ACTB / Beta Actin Antibody (C-Terminus) - 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 (C-Terminus) - 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).