

**ACTB / Beta Actin Antibody (N-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS11818****Specification**

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**ACTB / Beta Actin Antibody (N-Terminus) - Product Information**

Application	WB, ICC, IHC
Primary Accession	<a href="#">P60709</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42kDa KDa

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

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

**Target/Specificity**

Peptide-KLH, NH2 terminus

**Reconstitution & Storage**

+4°C or -20°C, Avoid repeated freezing and thawing.

**Precautions**

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

**ACTB / Beta Actin Antibody (N-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: [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.

### Volume

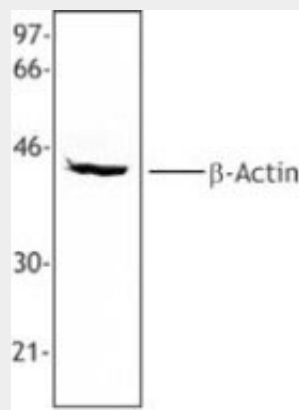
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### ACTB / Beta Actin Antibody (N-Terminus) - Protocols

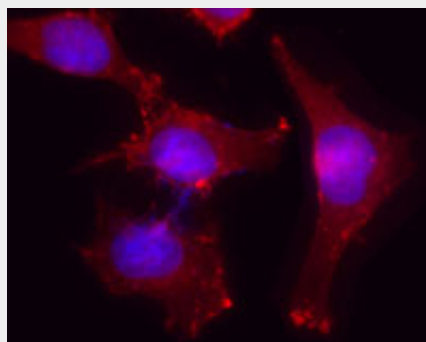
Provided below are standard protocols that you may find useful for product applications.

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

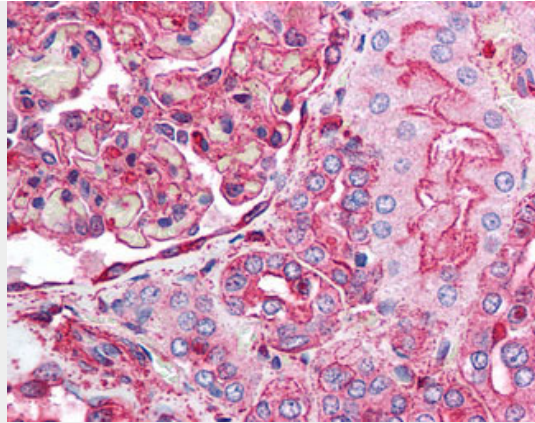
### ACTB / Beta Actin Antibody (N-Terminus) - Images



HeLa cell extract was western blotted with Poly6221.



Immunofluorescent microscope analysis of HeLa cells using Poly6221, followed by Rhodamine Red-X...



Anti-Beta Actin antibody IHC of human kidney.

### **ACTB / Beta Actin Antibody (N-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 (N-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).