

**Anti-ACTB / Beta Actin Antibody (clone SB185f)**  
**Rat Anti Human Monoclonal Antibody**  
**Catalog # ALS18281**

**Specification**

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**Anti-ACTB / Beta Actin Antibody (clone SB185f) - Product Information**

Application	WB, IHC-P, ICC
Primary Accession	<a href="#">P60709</a>
Predicted	Human
Host	Rat
Clonality	Monoclonal
Isotype	IgG2a
Calculated MW	41737
Dilution	WB~~1:1000 IHC-P~~N/A ICC~~N/A

**Anti-ACTB / Beta Actin Antibody (clone SB185f) - Additional Information**

**Gene ID 60**

Alias Symbol **ACTB**

**Other Names**

ACTB, Actin, cytoplasmic 1, Beta-actin, Beta actin, BRWS1, Actin, beta, Beta cytoskeletal actin, PS1TP5-binding protein 1, PS1TP5BP1

**Target/Specificity**

Human ACTB / Beta Actin

**Reconstitution & Storage**

Purified

**Precautions**

Anti-ACTB / Beta Actin Antibody (clone SB185f) is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-ACTB / Beta Actin Antibody (clone SB185f) - 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:<a href="http://www.uniprot.org/citations/29925947" target="\_blank">29925947</a>). 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:<a href="http://www.uniprot.org/citations/39321809" target="\_blank">39321809</a>, PubMed:<a href="http://www.uniprot.org/citations/38609661" target="\_blank">38609661</a>). 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.

**Anti-ACTB / Beta Actin Antibody (clone SB185f) - 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](#)

**Anti-ACTB / Beta Actin Antibody (clone SB185f) - Images**