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Anti-ACTB / Beta Actin Antibody (clone SB185f)

Rat Anti Human Monoclonal Antibody
Catalog # ALS18281

Product Information

Application	WB, IHC-P, ICC
Primary Accession	P60709
Predicted	Human
Host	Rat
Clonality	Monoclonal
Isotype	IgG2a
Clone Names	SB185f
Calculated MW	41737
Concentration (mg/ml)	0.5 mg/ml

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.

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, 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). 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 protafilaments (PubMed:39321809, PubMed: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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.