



# β-actin Monoclonal Antibody(5B7), HRP Conjugated

<b>Catalog No</b>	YP-Ab-04608
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;Mk;Dg;Ch;Hamster;Rabbit;Insect
<b>Applications</b>	IF;WB;IHC
<b>Gene Name</b>	ACTB
<b>Protein Name</b>	Actin cytoplasmic 1
<b>Immunogen</b>	
<b>Specificity</b>	β-actin Monoclonal Antibody(5B7) specially designed for your Western blot as internal control.
<b>Formulation</b>	Liquid in PBS, pH 7.4, containing 0.02% sodium azide as preservative and 50% Glycerol.
<b>Source</b>	Monoclonal, Mouse IgG1
<b>Purification</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
<b>Dilution</b>	Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB 1:2000-5000.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	ACTB
<b>Calculated Molecular Weight</b>	42kD
<b>Cell Pathway</b>	Cytoplasm, cytoskeleton . Nucleus . Localized in cytoplasmic mRNP granules containing untranslated mRNAs. .
<b>Tissue Specificity</b>	B-cell lymphoma,Brain,Cajal-Retzius cell,Eye,Fetal brain cortex,Foreskin,Hepatocellular car
<b>Function</b>	disease:Defects in ACTB are a cause of dystonia juvenile-onset (DYTJ) [MIM:607371]. DYTJ is a form of dystonia with juvenile onset. Dystonia is defined by the presence of sustained involuntary muscle contraction, often leading to abnormal postures. DYTJ patients manifest progressive, generalized, dopa-unresponsive dystonia, developmental malformations and sensory hearing loss.,function:Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.,miscellaneous:In vertebrates 3 main groups of actin isoforms, alpha, beta and gamma have been identified. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins coexist in most cell types as components of the cytoskeleton and as mediators of internal cell motility.,similarity:Belongs to the

**Background**

This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, and integrity. This actin is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins. [provided by RefSeq, Jul 2008],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images