

## β-actin (5B7) Mouse mAb (HRP)

CatalogNo: YM2093

### Key Features

**Host Species**

- Mouse

**Reactivity**

- Human, Mouse, Rat, Mk, Dg, Ch, Hamster, Rabbit, Insect

**Applications**

- IF, WB, IHC

**MW**

- 42kD  
(Calculated)

**Isotype**

- IgG1

**Conjugate**

- HRP

### Recommended Dilution Ratios

Optimal working dilutions should be determined experimentally by the investigator

Suggested starting dilutions are as follows: WB 1:2000-5000.

### Storage

**Storage\***

Stable for one year at -15°C to -25°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

**Formulation**

Liquid in PBS, pH 7.4, containing 0.02% sodium azide as preservative and 50% Glycerol.

### Basic Information

**Clonality**

Monoclonal

**Clone Number**

5B7

### Immunogen Information

**Specificity**

β-actin Monoclonal Antibody(5B7) specially designed for your Western blot as internal control.

# | Target Information

Gene name	ACTB		
Protein Name	Actin cytoplasmic 1		
	Organism	Gene ID	UniProt ID
	Human	<a href="#">60</a> ;	<a href="#">P60709</a> ;
	Mouse	<a href="#">11461</a> ;	<a href="#">P60710</a> ;
	Rat	<a href="#">81822</a> ;	<a href="#">P60711</a> ;
Cellular Localization	Cytoplasm, cytoskeleton . Nucleus . Localized in cytoplasmic mRNP granules containing untranslated mRNAs. .		
Tissue specificity	B-cell lymphoma,Brain,Cajal-Retzius cell,Eye,Fetal brain cortex,Foreskin,Hepatocellular car		
Function	<p>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 actin family.,subunit:Polymerization of globular actin (G-actin) leads to a structural filament (F-actin) in the form of a two-stranded helix. Each actin can bind to 4 others. Component of the BAF complex, which includes at least actin (ACTB), ARID1A, ARID1B/BAF250, SMARCA2, SMARCA4/BRG1, ACTL6A/BAF53, ACTL6B/BAF53B, SMARCE1/BAF57 SMARCC1/BAF155, SMARCC2/BAF170, SMARCB1/SNF5/INI1, and one or more of SMARCD1/BAF60A, SMARCD2/BAF60B, or SMARCD3/BAF60C. In muscle cells, the BAF complex also contains DPF3. Found in a complex with XPO6, Ran, ACTB and PFN1. Interacts with XPO6.,</p>		

# | Validation Data

# | Contact information

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Please scan the QR code to access additional product information:  
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