

# **β-actin (5B7) Mouse mAb (HRP)**

CatalogNo: YM2093

#### **Key Features**

**Host Species** 

Mouse

• 42kD

Reactivity

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

**Applications** IF,WB,IHC

MW

Isotype IgG1

**Recommended Dilution Ratios** 

Conjugate HRP

(Calculated)

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	<u>60</u> ;	<u>P60709</u> ;
Mouse	<u>11461;</u>	<u>P60710;</u>
Rat	<u>81822;</u>	<u>P60711;</u>

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** 

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. DYTI 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 (Gactin) 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...

### Validation Data

### | Contact information

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