

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

CatalogNo: YM2093

Key Features

Host Species

- Mouse

Reactivity

- Human,Rat,Mouse,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

1mg/ml

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	60;	P60709;

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 (DYT) [MIM:607371]. DYT] is a form of dystonia with juvenile onset. Dystonia is defined by the presence of sustained involuntary muscle contraction, often leading to abnormal postures. DYT] 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.,

| Validation Data

| Contact information

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