

**$\beta$ -actin Monoclonal Antibody(5B7), Cy3 Conjugated**

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| <b>Catalog No :</b>          | YM2193   |
| <b>Reactivity :</b>          | Human;Rat;Mouse;Mk;Dg;Ch;Hamster;Rabbit;Insect   |
| <b>Applications :</b>        | IF;WB;IHC  |
| <b>Target :</b>              | Actin $\beta$  |
| <b>Fields :</b>              | >>Rap1 signaling pathway;>>Phagosome;>>Apoptosis;>>Hippo signaling pathway;>>Focal adhesion;>>Adherens junction;>>Tight junction;>>Platelet activation;>>Neutrophil extracellular trap formation;>>Leukocyte transendothelial migration;>>Thermogenesis;>>Regulation of actin cytoskeleton;>>Thyroid hormone signaling pathway;>>Oxytocin signaling pathway;>>Gastric acid secretion;>>Amyotrophic lateral sclerosis;>>Bacterial invasion of epithelial cells;>>Vibrio cholerae infection;>>Pathogenic Escherichia coli infection;>>Shigellosis;>>Salmonella infection;>>Yersinia infection;>>Influenza A;>>Proteoglycans in cancer;>>Hepatocellular carcinoma;>>Hypertrophic cardiomyopathy;>>Arrhythmogenic right ventricular cardiomyopathy;>>Dilated cardiomyopathy;>>Viral myocarditis;>>Fluid shear stress and atherosclerosis |
| <b>Gene Name :</b>           | ACTB   |
| <b>Protein Name :</b>        | Actin cytoplasmic 1  |
| <b>Human Gene Id :</b>       | 60   |
| <b>Human Swiss Prot No :</b> | P60709   |
| <b>Specificity :</b>         | $\beta$ -actin Monoclonal Antibody(5B7) Cy3 Conjugated specially designed for your Immunofluorescence analysis.  |
| <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>Dilution :</b>            | Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB 1:5000, IHC 1:200.  |

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| <b>Purification :</b>         | The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.  |
| <b>Concentration :</b>        | 1mg/ml  |
| <b>Storage Stability :</b>    | 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 freezi  |
| <b>Cell Pathway :</b>         | Focal adhesion;Adherens_Junction;Adherens_Junction;Leukocyte transendothelial migration;Regulates Actin and Cytoskeleton;Vibrio cholerae infection;Pathogenic Escherichia coli infection;Hypertrophic ca  |
| <b>Background :</b>           | 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],  |
| <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 |
| <b>Subcellular Location :</b> | Cytoplasm, cytoskeleton . Nucleus . Localized in cytoplasmic mRNP granules containing untranslated mRNAs. .   |
| <b>Expression :</b>           | B-cell lymphoma,Brain,Cajal-Retzius cell,Eye,Fetal brain cortex,Foreskin,Hepatocellular car   |

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