

## Actin $\beta$ Polyclonal Antibody

<b>Catalog No :</b>	YT0099
<b>Reactivity :</b>	Human;Mouse;Rat;Chicken;Globefish;Bovine;Hamster;Pig;Ovine;Cat;Pig;Dog;Sheep
<b>Applications :</b>	IF;WB;IHC;ELISA
<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>Mouse Gene Id :</b>	11461
<b>Mouse Swiss Prot No :</b>	P60710
<b>Rat Gene Id :</b>	81822
<b>Rat Swiss Prot No :</b>	P60711
<b>Immunogen :</b>	Synthesized peptide derived from the N-terminal region of human Actin $\beta$ . AA range: 1-80

<b>Specificity :</b>	<u>Actin <math>\beta</math> Polyclonal Antibody detects endogenous levels of Actin <math>\beta</math> protein.</u>
<b>Formulation :</b>	<u>Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.</u>
<b>Source :</b>	<u>Polyclonal, Rabbit,IgG</u>
<b>Dilution :</b>	<u>IF 1:50-200 WB 1:2000 - 1:10000. IHC 1:100 - 1:300. ELISA: 1:20000. Not yet tested in other applications.</u>
<b>Purification :</b>	<u>The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.</u>
<b>Concentration :</b>	<u>1 mg/ml</u>
<b>Storage Stability :</b>	<u>-15°C to -25°C/1 year(Do not lower than -25°C)</u>
<b>Observed Band :</b>	<u>42kD</u>
<b>Cell Pathway :</b>	<u>Focal adhesion;Adherens_Junction;Adherens_Junction;Leukocyte transendothelial migration;Regulates Actin and Cytoskeleton;Vibrio cholerae infection;Pathogenic Escherichia coli infection;Hypertrophic ca</u>
<b>Background :</b>	<u>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],</u>
<b>Function :</b>	<u>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</u>
<b>Subcellular Location :</b>	<u>Cytoplasm, cytoskeleton . Nucleus . Localized in cytoplasmic mRNP granules containing untranslated mRNAs. .</u>
<b>Expression :</b>	<u>B-cell lymphoma,Brain,Cajal-Retzius cell,Eye,Fetal brain cortex,Foreskin,Hepatocellular car</u>

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