

Actin pan (ABT56R) rabbit mAb

Catalog No :	YM7004
Reactivity :	Human;Mouse (predicted: Rat;Bovin;Pig;Chick)
Applications :	WB; IHC; ELISA
Target :	Actin pan
Fields :	>>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
Gene Name :	ACTC1;ACTA1;ACTA2;ACTB;ACTG1;ACTG2
Protein Name :	Actin pan
Human Swiss Prot No :	P62736/P68032/P60709/P63261/P68133/P63267
Immunogen :	Synthesized peptide derived from human Actin pan AA range:300-377
Specificity :	This antibody detects endogenous levels of Actin pan
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, Rabbit IgG1, Kappa
Dilution :	IHC 1:100-500, WB 1:500-1000, ELISA 1:5000-20000
Purification :	Recombinant Expression and Affinity purified
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Cell Pathway : Vascular smooth muscle contraction;

Background : 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],

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. 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

Subcellular Location : Cytoplasm, cytoskeleton . Nucleus . Localized in cytoplasmic mRNP granules containing untranslated mRNAs. .

Expression : B-cell lymphoma,Brain,Cajal-Retzius cell,Eye,Fetal brain cortex,Foreskin,Hepatocellular car

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