



Actin β Polyclonal Antibody

Catalog No	YP-Ab-03079
Isotype	IgG
Reactivity	Human;Mouse;Rat;Chicken;Globefish ;Bovine;Hamster;Pig;Ovine;Cat;Pig;Dog; Sheep
Applications	IF;WB;IHC;ELISA
Gene Name	ACTB
Immunogen	Synthesized peptide derived from the N-terminal region of human Actin β . AA range: 1-80
Specificity	Actin β Polyclonal Antibody detects endogenous levels of Actin β protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IF: 1:50-200 Western Blot: 1/2000 - 1/10000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	ACTB;Actin;cytoplasmic 1;Beta-actin;Beta actin;BRWS1; actin;b actin;Actin beta;Beta cytoskeletal actin;PS1TP5-binding protein 1;PS1TP5BP1;Actin β ;Actin cytoplasmic 1; β -Actin
Observed Band	42kD
Calculated Molecular Weight	42kD
Cell Pathway	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. 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

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],

matters needing attention

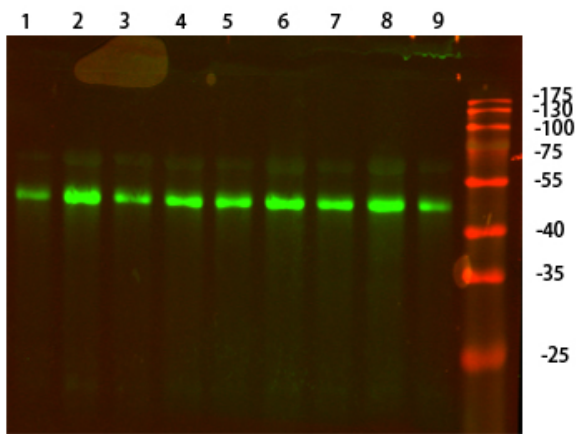
Avoid repeated freezing and thawing!

Usage suggestions

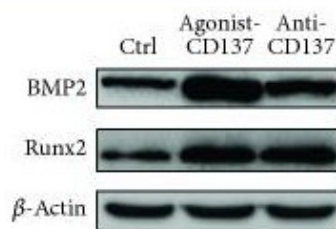
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



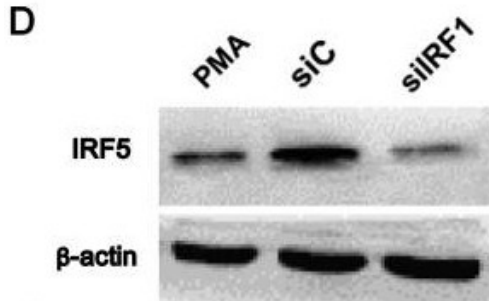
Products Images



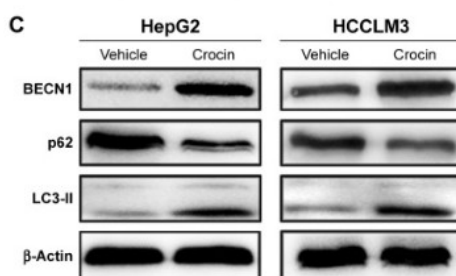
Liu, Fengchao, et al. "Prolonged inhibition of class I PI3K promotes liver cancer stem cell expansion by augmenting SGK3/GSK-3 β / β -catenin signalling." *Journal of Experimental & Clinical Cancer Research* 37.1 (2018): 122.



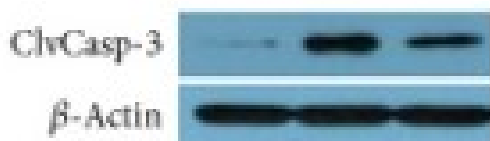
Chen, Rui, et al. "Activation of CD137 Signaling Enhances Vascular Calcification through c-Jun N-Terminal Kinase-Dependent Disruption of Autophagic Flux." *Mediators of inflammation* 2018 (2018).



Xie, Changli, et al. "Effects of IRF1 and IFN- β interaction on the M1 polarization of macrophages and its antitumor function." *International journal of molecular medicine* 38.1 (2016): 148-160.



Yao, Chong, et al. "Crocic induces autophagic apoptosis in hepatocellular carcinoma by inhibiting Akt/mTOR activity." *OncoTargets and therapy* 11 (2018): 2017.



Li, Haiming, et al. "Collagen External Scaffolds Mitigate Intimal Hyperplasia and Improve Remodeling of Vein Grafts in a Rabbit Arteriovenous Graft Model." *BioMed Research International* 2017 (2017).