



# Actin $\beta$ Polyclonal Antibody

<b>Catalog No</b>	BYab-03079
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat;Chicken;Globefish ;Bovine;Hamster;Pig;Ovine;Cat;Pig;Dog;Sheep
<b>Applications</b>	IF;WB;IHC;ELISA
<b>Gene Name</b>	ACTB
<b>Protein Name</b>	Actin cytoplasmic 1
<b>Immunogen</b>	Synthesized peptide derived from the N-terminal region of human Actin $\beta$ . AA range: 1-80
<b>Specificity</b>	Actin $\beta$ Polyclonal Antibody detects endogenous levels of Actin $\beta$ protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	IF: 1:50-200 Western Blot: 1/2000 - 1/10000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	$\geq 90\%$
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	ACTB; Actin; cytoplasmic 1; Beta-actin; Actin $\beta$ ; $\beta$ -Actin; Beta actin
<b>Observed Band</b>	42kD
<b>Cell Pathway</b>	Cytoplasm, cytoskeleton . Nucleus . Localized in cytoplasmic mRNP granules containing untranslated mRNAs. .
<b>Tissue Specificity</b>	B-cell lymphoma,Brain,Cajal-Retzius cell,Eye,Fetal brain cortex,Foreskin,Hepatocellular car
<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

Nanjing BYabscience technology Co.,Ltd



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**

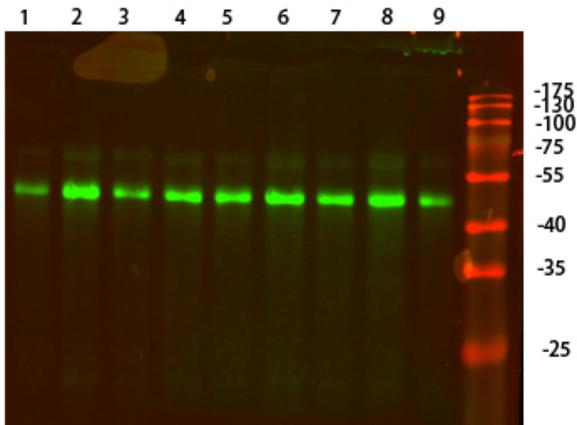
Avoid repeated freezing and thawing!

**Usage suggestions**

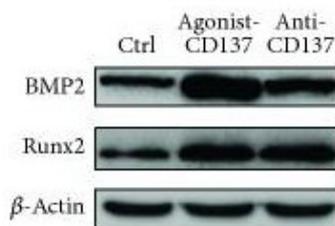
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



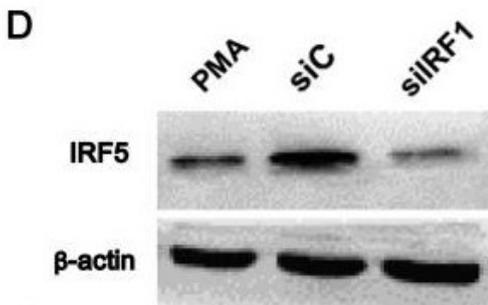
## Products Images



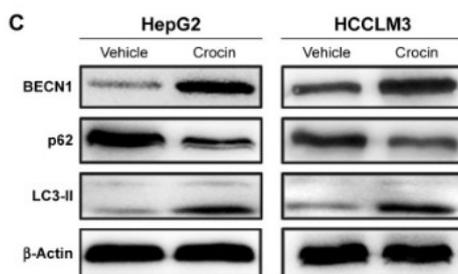
Liu, Fengchao, et al. "Prolonged inhibition of class I PI3K promotes liver cancer stem cell expansion by augmenting SGK3/GSK-3 $\beta$ / $\beta$ -catenin signalling." *Journal of Experimental & Clinical Cancer Research* 37.1 (2018): 122.



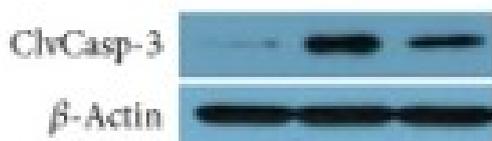
Chen, Rui, et al. "Activation of CD137 Signaling Enhances Vascular Calcification through c-Jun N-Terminal Kinase-Dependent Disruption of Autophagic Flux." *Mediators of inflammation* 2018 (2018).



Xie, Changli, et al. "Effects of IRF1 and IFN- $\beta$  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. "Crocini 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).

Nanjing BYabscience technology Co.,Ltd