

Actin β Polyclonal Antibody

Catalog No: YT0099

Reactivity: Human; Mouse; Rat; Chicken; Globefish; Bovine; Hamster; Pig; Ovine; Cat; Pig; Dog; S

heep

Applications: IF;WB;IHC;ELISA

Target: Actin β

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: ACTB

Protein Name: Actin cytoplasmic 1

Human Gene Id: 60

Human Swiss Prot P60709

No:

Mouse Gene ld: 11461

Mouse Swiss Prot

No:

Rat Gene Id: 81822

Rat Swiss Prot No: P60711

Immunogen: Synthesized peptide derived from the N-terminal region of human Actin β. AA

range: 1-80

P60710



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

Dilution: IF 1:50-200 WB 1:2000 - 1:10000. IHC 1:100 - 1:300. ELISA: 1:20000. Not yet

tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 42kD

Cell Pathway: Focal adhesion; Adherens_Junction; Adherens_Junction; Leukocyte

transendothelial migration; Regulates Actin and Cytoskeleton; Vibrio cholerae

infection; Pathogenic Escherichia coli infection; Hypertrophic ca

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, dopaunresponsive 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

Tag: orthogonal,hot

Sort: 1

No1: ab6276

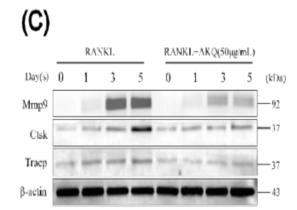
No3: ab8227

No4: 1

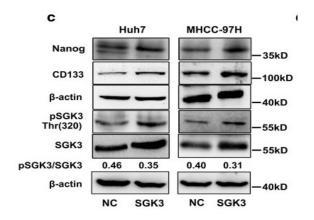
Host: Rabbit

Modifications: Unmodified

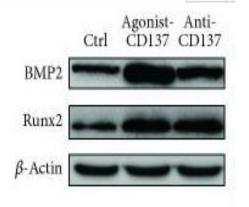
Products Images



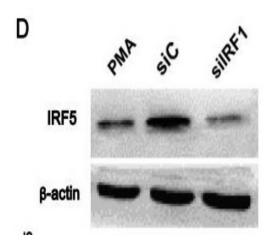
Aikeqing, a kidney- and spleen-tonifying compound Chinese medicine granule, prevented ovariectomy-induced bone loss in rats via the suppression of osteoclastogenesis. BIOMEDICINE & PHARMACOTHERAPY Xiao-Ling Shen WB Rat[?]Mouse left femurs bone marrow macrophages (BMMs)



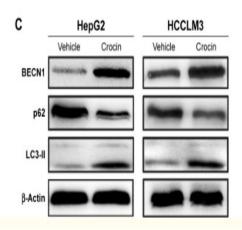
Liu, Fengchao, et al. "Prolonged inhibition of class I PI3K promotes liver cancer stem cell expansion by augmenting SGK3/GSK-3 β / β -catenin signalling." Journal of Experimental & Clinical Cancer Research 37.1 (2018): 122.



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).



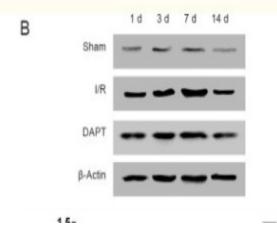
Xie, Changli, et al. "Effects of IRF1 and IFN- β interaction on the M1 polarization of macrophages and its antitumor function." International journal of molecular medicine 38.1 (2016): 148-160.



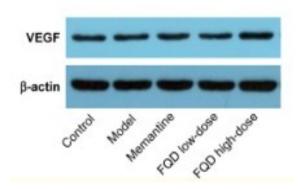
Yao, Chong, et al. "Crocin induces autophagic apoptosis in hepatocellular carcinoma by inhibiting Akt/mTOR activity." OncoTargets and therapy 11 (2018): 2017.



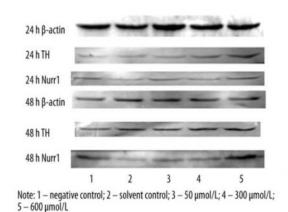
Li, Haiming, et al. "Collagen External Scaffolds Mitigate Intimal Hyperplasia and Improve Remodeling of Vein Grafts in a Rabbit Arteriovenous Graft Model." BioMed Research International 2017 (2017).



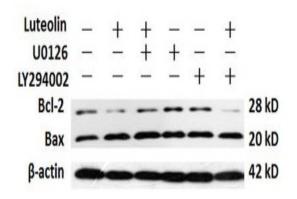
Wang, Jun-Jie, et al. "Neuroprotective effect of Notch pathway inhibitor DAPT against focal cerebral ischemia/reperfusion 3 hours before model establishment." Neural regeneration research 14.3 (2019): 452.



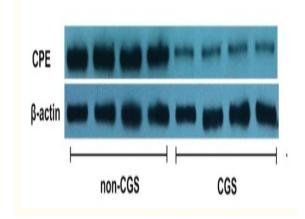
Wang, Feixue, et al. "The Chinese herbal formula Fuzheng Quxie Decoction attenuates cognitive impairment and protects cerebrovascular function in SAMP8 mice." Neuropsychiatric disease and treatment 14 (2018): 3037.



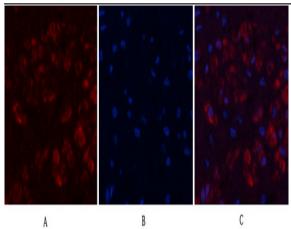
Yu, Jia, et al. "Effects of simazine exposure on neuronal development-related factors in mn9d cells." Medical science monitor: international medical journal of experimental and clinical research 22 (2016): 2831.



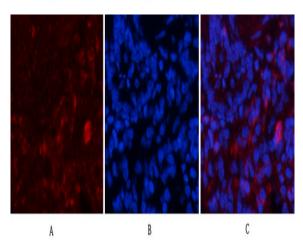
Lu, Xueying, et al. "Luteolin induces apoptosis in vitro through suppressing the MAPK and PI3K signaling pathways in gastric cancer." Oncology letters 14.2 (2017): 1993-2000.



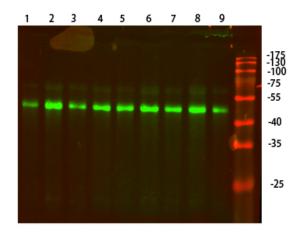
Dai, Shu-Long, et al. "The expression of hepatic carboxypeptidase E is decreased in patients with cholesterol gallstone." Saudi journal of gastroenterology: official journal of the Saudi Gastroenterology Association 21.4 (2015): 226.



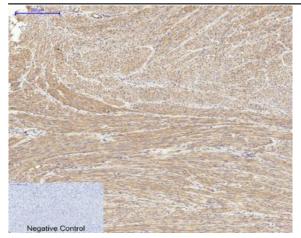
Immunofluorescence analysis of human-uterus tissue. 1,Actin β Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



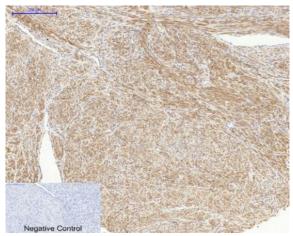
Immunofluorescence analysis of rat-lung tissue. 1,Actin β Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



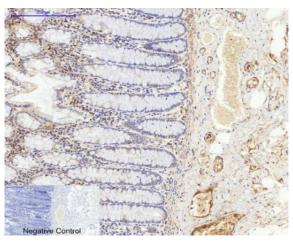
Western Blot analysis of 1,hela 2,A549 3,HEPG2 4,Mouse-brain 5,Mouse-lung 6,Mouse-liver 7,Rat-brain 8,Rat-lung 9,Rat-liver cells using primary antibody diluted at 1:1000(4°C overnight). Secondary antibody:Goat Anti-rabbit IgG IRDye 800(diluted at 1:5000, 25°C, 1 hour). Cell lysate was extracted by MinuteTM Plasma Membrane Protein Isolation and Cell Fractionation Kit(SM-005, Inventbiotech,MN,USA).



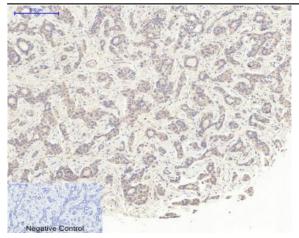
Immunohistochemical analysis of paraffin-embedded Humanuterus tissue. 1,Actin β Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



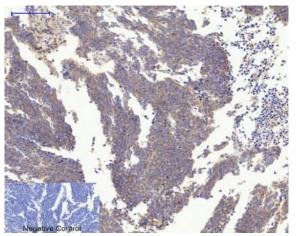
Immunohistochemical analysis of paraffin-embedded Humanuterus-cancer tissue. 1,Actin β Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



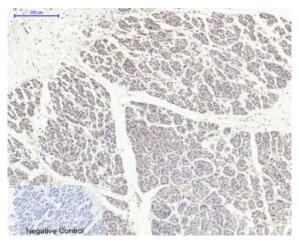
Immunohistochemical analysis of paraffin-embedded Human-colon tissue. 1,Actin β Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



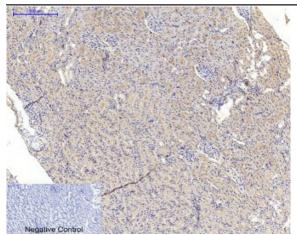
Immunohistochemical analysis of paraffin-embedded Human-liver-cancer tissue. 1,Actin β Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



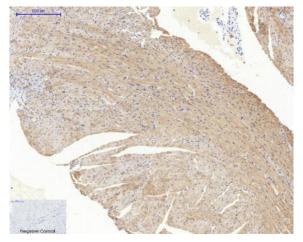
Immunohistochemical analysis of paraffin-embedded Humanlung-cancer tissue. 1,Actin β Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



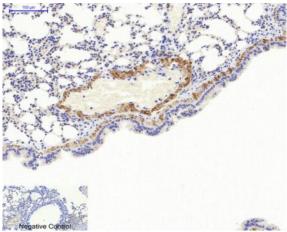
Immunohistochemical analysis of paraffin-embedded Humanstomach-cancer tissue. 1,Actin β Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



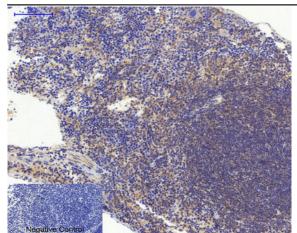
Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1,Actin β Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



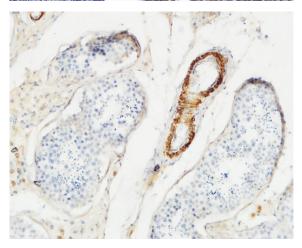
Immunohistochemical analysis of paraffin-embedded Mouseheart tissue. 1,Actin β Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-lung tissue. 1,Actin β Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-spleen tissue. 1,Actin β Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Human testis. 1, Antibody was diluted at 1:100(4° overnight). 2, Highpressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).