

**β-actin (PTR2364) mouse mAb**

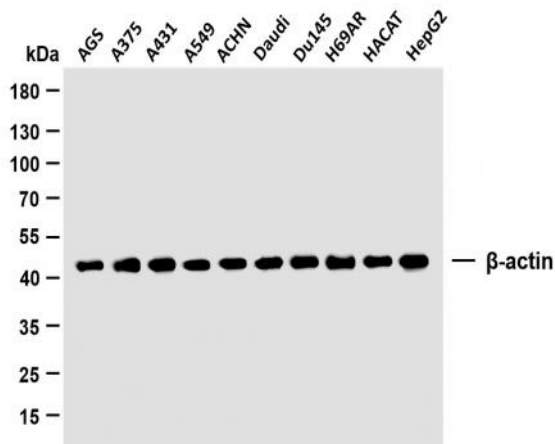
<b>Catalog No :</b>	YM3028
<b>Reactivity :</b>	Human;Mouse;Rat;
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	Actin β
<b>Fields :</b>	>>Rap1 signaling pathway;>>Phagosome;>>Apoptosis;>>Hippo signaling pathway;>>Focal adhesion;>>Adherens junction;>>Tight junction;>>Platelet activation;>>Neutrophil 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 human protein.AA range: 1-100
<b>Specificity :</b>	This antibody detects endogenous levels of β-actin protein.

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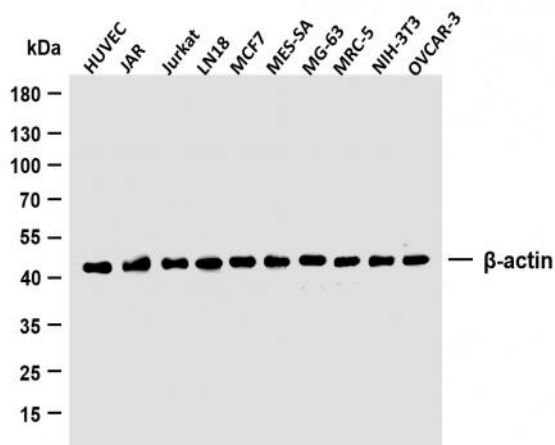
<b>Formulation :</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source :</b>	Mouse, Monoclonal/IgG1, kappa
<b>Dilution :</b>	WB 1:1000-5000. IF 1:100-500. ELISA 1:5000-50000
<b>Purification :</b>	Protein G
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	42kD
<b>Observed Band :</b>	42kD
<b>Cell Pathway :</b>	Focal adhesion;Adherens_Junction;Adherens_Junction;Leukocyte transendothelial migration;Regulates Actin and Cytoskeleton;Vibrio cholerae infection;Pathogenic Escherichia coli infection;Hypertrophic ca
<b>Background :</b>	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],
<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 actins coexist in most cell types as components of the cytoskeleton and as mediators of internal cell motility.,similarity:Belongs to the
<b>Subcellular Location :</b>	Cytoplasmic
<b>Expression :</b>	B-cell lymphoma,Brain,Cajal-Retzius cell,Eye,Fetal brain cortex,Foreskin,Hepatocellular car

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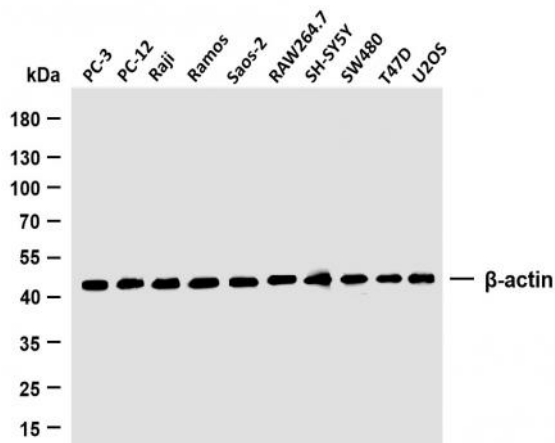
## Products Images



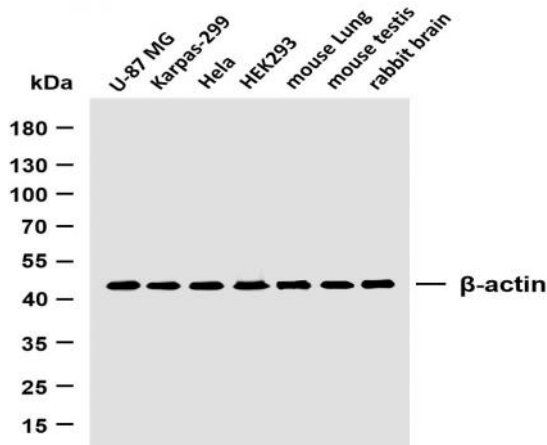
Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti- $\beta$ -actin (PTR2364) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: AGS Lane 2: A375 Lane 3: A431 Lane 4: A549 Lane 5: ACHN Lane 6: Daudi Lane 7: Du145 Lane 8: H69AR Lane 9: HACAT Lane 10: HepG2



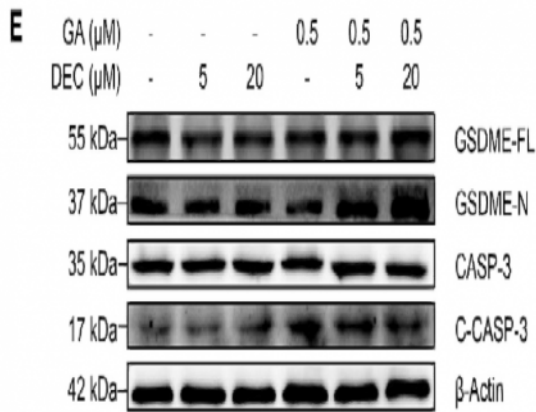
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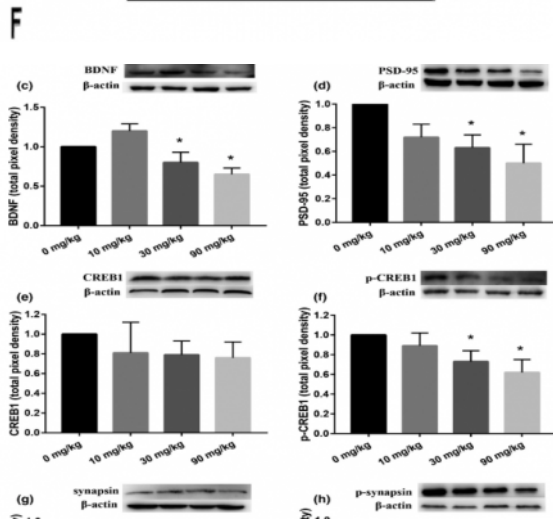
Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti- $\beta$ -actin (PTR2364) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: PC-3 Lane 2: PC-12 Lane 3: Raji Lane 4: Ramos Lane 5: Saos-2 Lane 6: RAW264.7 Lane 7: SH-SY5Y Lane 8: SW480 Lane 9: T47D Lane 10: U2OS



Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-β-actin (PTR2364) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: U-87 MG Lane 2: Karpas-299 Lane 3: HeLa Lane 4: HEK293 Lane 5: Mouse Lung Lane 6: mouse testis Lane 7: Rabbit brain

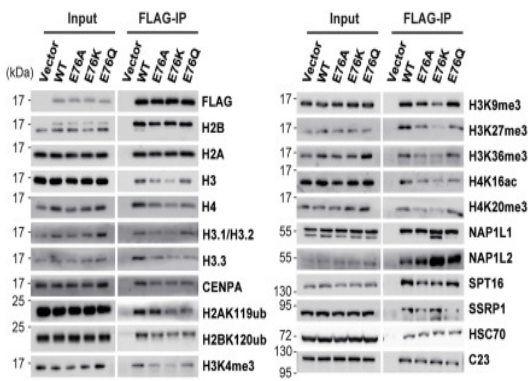


Postsurgical wound management and prevention of triple-negative breast cancer recurrence with a pyroptosis-inducing, photopolymerizable hydrogel JOURNAL OF CONTROLLED RELEASE Sanjun Shi WB Mouse 4 T1 cell



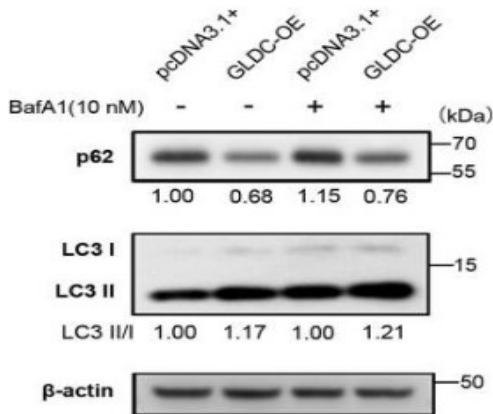
Wang, Yue, et al. "Fetal exposure to dichloroacetic acid and impaired cognitive function in the adulthood." Brain and Behavior 10.10 (2020): e01801.

**C**



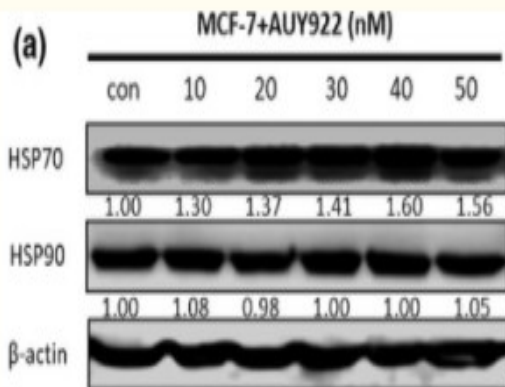
Kang, Tze Zhen Evangeline, et al. "The elevated transcription of ADAM19 by the oncohistone H2BE76K contributes to oncogenic properties in breast cancer." *Journal of Biological Chemistry* 296 (2021).

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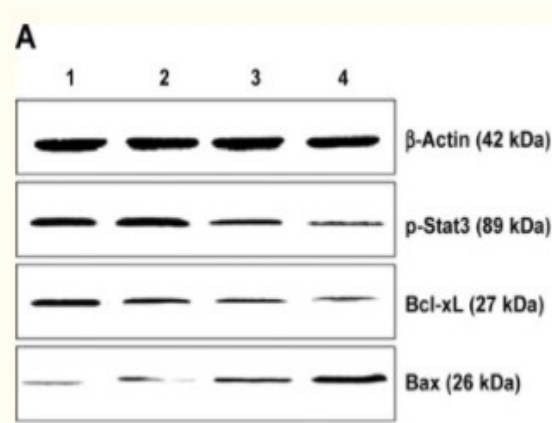


Zhuang, Hao, et al. "Glycine decarboxylase induces autophagy and is downregulated by miRNA-30d-5p in hepatocellular carcinoma." *Cell death & disease* 10.3 (2019).

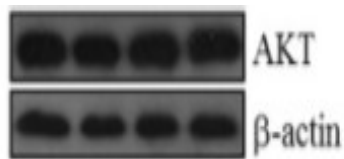
**(a)**



Bai, Jingchao, et al. "HSP 90 inhibitor AUY 922 can reverse Fulvestrant induced feedback reaction in human breast cancer cells." *Cancer science* 108.6 (2017): 1177-1184.



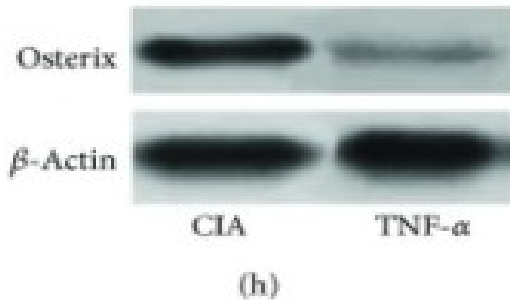
Tang, Qiusha, et al. "Combination of PEI-MnO<sub>2</sub>, ZnO, Fe<sub>2</sub>O<sub>4</sub> nanoparticles and pHsp 70-HSV-TK/GCV with magnet-induced heating for treatment of hepatoma." *International journal of nanomedicine* 10 (2015): 7129.

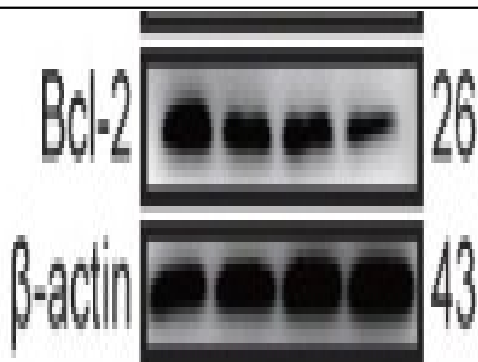


Wang, Wu M., et al. "MicroRNA-182 regulates neurite outgrowth involving the PTEN/AKT pathway." *Frontiers in cellular neuroscience* 11 (2017): 96.

NC+DMSO  
 NC+LY294002  
 miR-182+DMSO  
 miR-182+LY294002

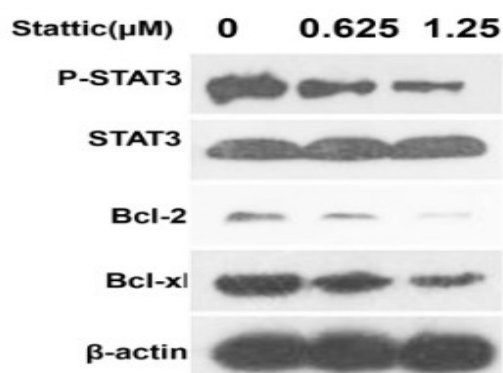
Liu, Chang, et al. "Mesenchymal Stem Cells Promote the Osteogenesis in Collagen-Induced Arthritic Mice through the Inhibition of TNF- $\alpha$ ." *Stem cells international* 2018 (2018).



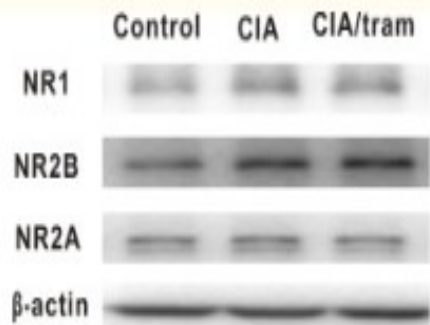


Tao, Yuquan, et al. "Huaier Augmented the Chemotherapeutic Sensitivity of Oxaliplatin via Downregulation of YAP in Hepatocellular Carcinoma." *Journal of Cancer* 9.21 (2018): 3962.

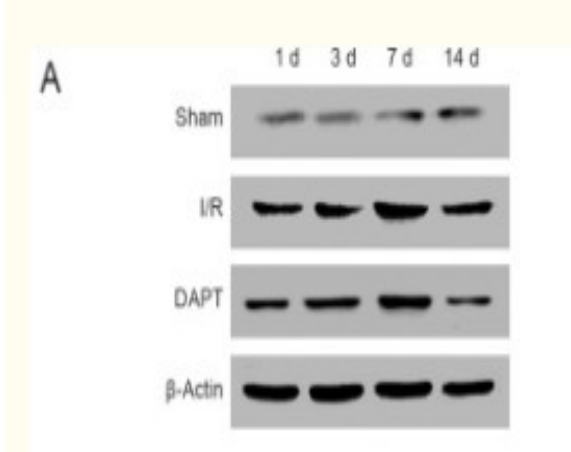
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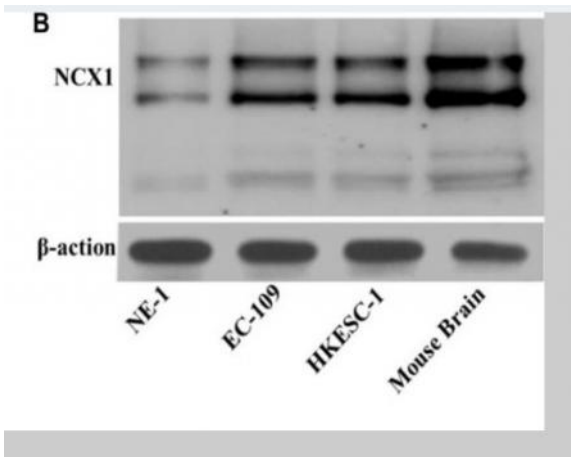
Liu, Yanmei, et al. "Cancer Stem Cells are Regulated by STAT3 Signalling in Wilms Tumour." *Journal of Cancer* 9.8 (2018): 1486.



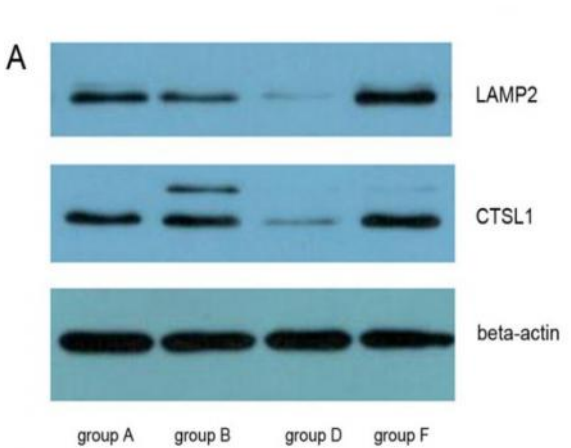
Xu, Yingming, et al. "The spinal NR2BR/ERK2 pathway as a target for the central sensitization of collagen-induced arthritis pain." *PloS one* 13.7 (2018): e0201021.



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.



Wen, Jiexia, et al. "Essential role of Na<sup>+</sup>/Ca<sup>2+</sup> exchanger 1 in smoking-induced growth and migration of esophageal squamous cell carcinoma." *Oncotarget* 7.39 (2016): 63816.



Song, Zonggong, et al. "miR-352 participates in the regulation of trypsinogen activation in pancreatic acinar cells by influencing the function of autophagic lysosomes." *Oncotarget* 9.13 (2018): 10868.