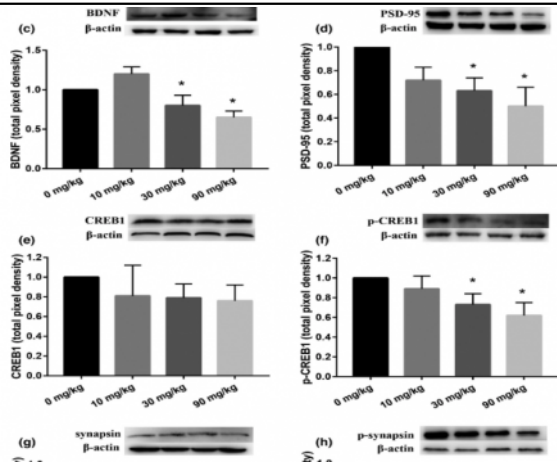


β -actin Monoclonal Antibody(5B7)

Catalog No :	YM3028
Reactivity :	Human,Rat,Mouse,Mk,Dg,Ch,Hamster,Rb,Insect
Applications :	IF/ICC,WB,IHC-p
Gene Name :	ACTB
Protein Name :	Actin cytoplasmic 1
Human Gene Id :	60
Human Swiss Prot No :	P60709
Mouse Gene Id :	11461
Mouse Swiss Prot No :	P60710
Rat Gene Id :	81822
Rat Swiss Prot No :	P60711
Immunogen :	Synthetic Peptide of β -actin
Specificity :	The antibody detects endogenous β -actin protein.
Formulation :	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Source :	Mouse
Dilution :	IF: 1:50-200 WB: 1:5000-20000 IHC: 1:200-300
Purification :	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Concentration :	1 mg/ml

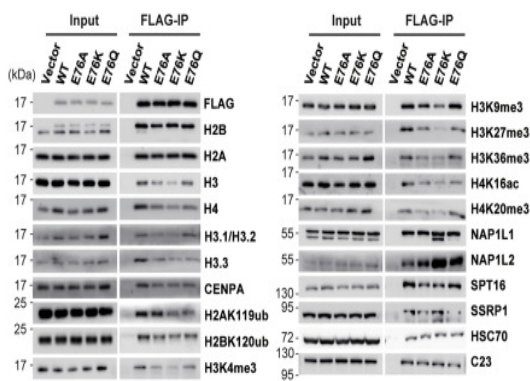
Storage Stability :	-20°C/1 year
Molecularweight :	41737
Observed Band :	43
Cell Pathway :	Focal adhesion,Adherens_Junction,Adherens_Junction,Leukocyte transendothelial migration,Regulates Actin and Cytoskeleton,Vibrio cholerae infection,Pathogenic Escherichia coli infection,Hypertrophic ca
Background :	actin beta(ACTB) Homo sapiens 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 :	nuclear chromatin,extracellular space,nucleoplasm,cytoplasm,cytosol,cytoskeleton,plasma membrane,focal adhesion,membrane,intracellular ribonucleoprotein complex,cortical cytoskeleton,NuA4 histone acetyltransferase complex,cyt
Expression :	B-cell lymphoma,Brain,Cajal-Retzius cell,Eye,Fetal brain cortex,Foreskin,Hepatocellular car

Products Images



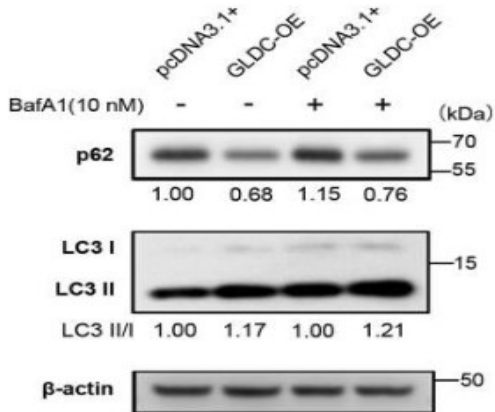
Wang, Yue, et al. "Fetal exposure to dichloroacetic acid and impaired cognitive function in the adulthood." *Brain and Behavior* 10.10 (2020): e01801.

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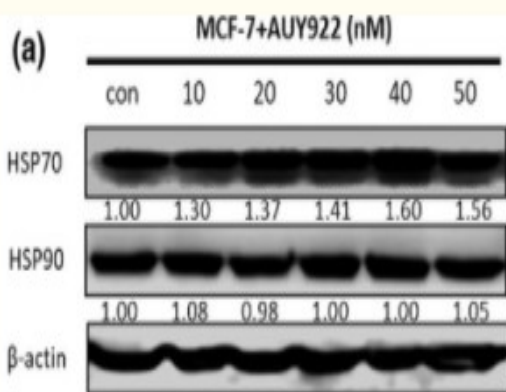


Kang, Tze Zhen Evangeline, et al. "The elevated transcription of ADAM19 by the oncohistone H2BE76K contributes to oncogenic properties in breast cancer." *Journal of Biological Chemistry* 296 (2021).

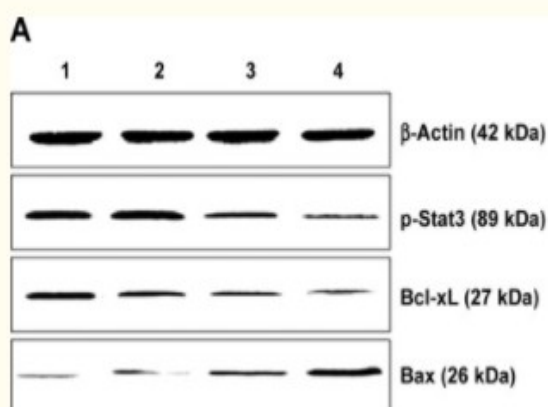
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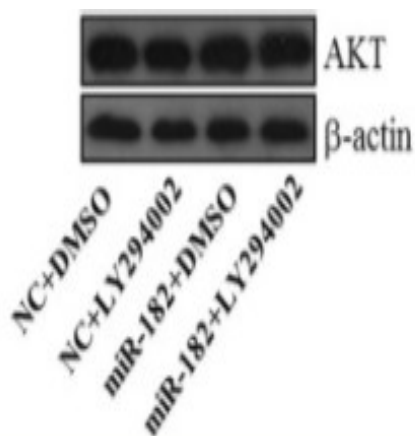
Zhuang, Hao, et al. "Glycine decarboxylase induces autophagy and is downregulated by miRNA-30d-5p in hepatocellular carcinoma." *Cell death & disease* 10.3 (2019).



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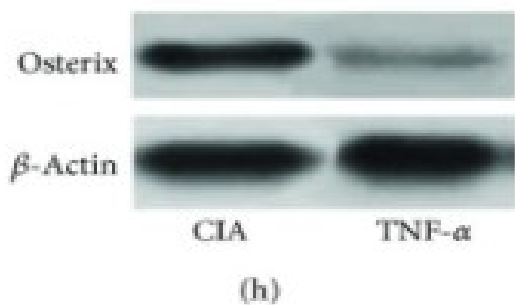


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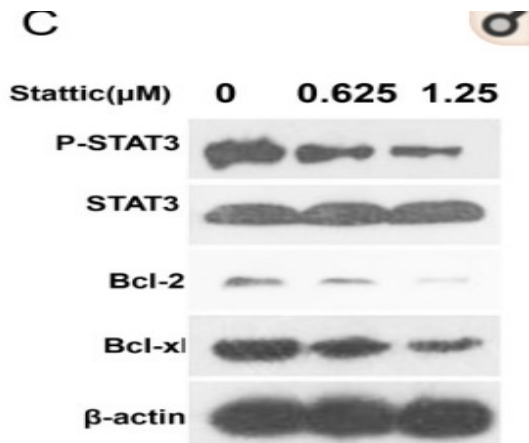
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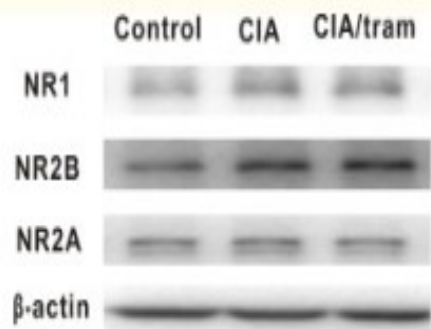
Tao, Yuquan, et al. "Huaier Augmented the Chemotherapeutic Sensitivity of Oxaliplatin via Downregulation of YAP in Hepatocellular Carcinoma." *Journal of Cancer* 9.21 (2018): 3962.



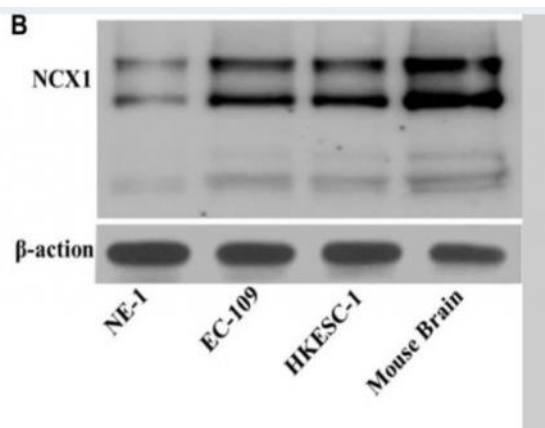
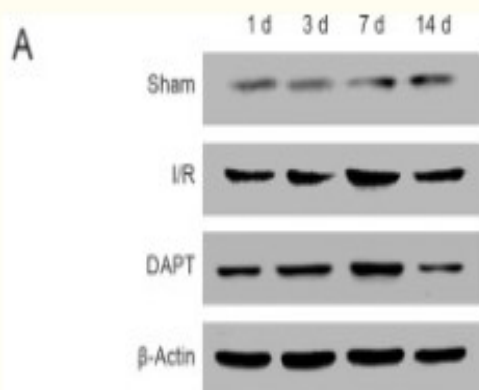
Liu, Yanmei, et al. "Cancer Stem Cells are Regulated by STAT3 Signalling in Wilms Tumour." *Journal of Cancer* 9.8 (2018): 1486.



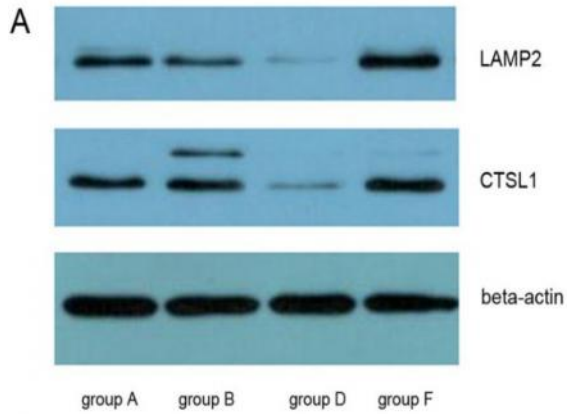
Xu, Yingming, et al. "The spinal NR2BR/ERK2 pathway as a target for the central sensitization of collagen-induced arthritis pain." *PloS one* 13.7 (2018): e0201021.



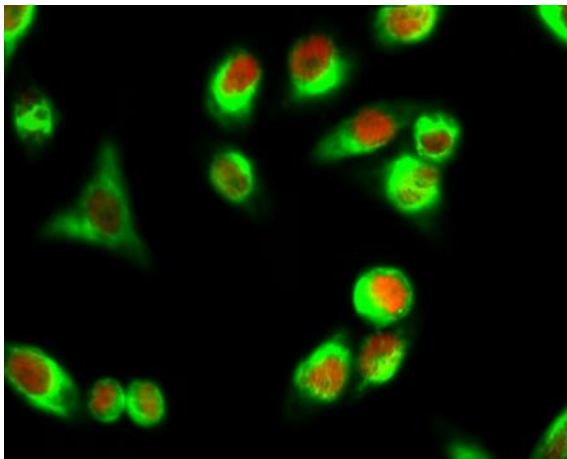
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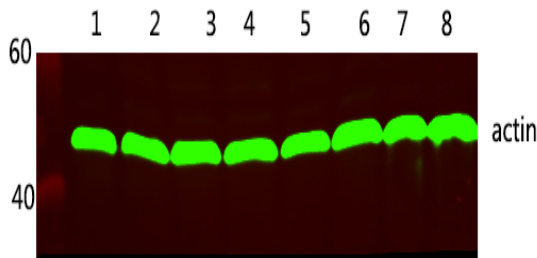
Wen, Jiexia, et al. "Essential role of Na⁺/Ca²⁺ exchanger 1 in smoking-induced growth and migration of esophageal squamous cell carcinoma." *Oncotarget* 7.39 (2016): 63816.



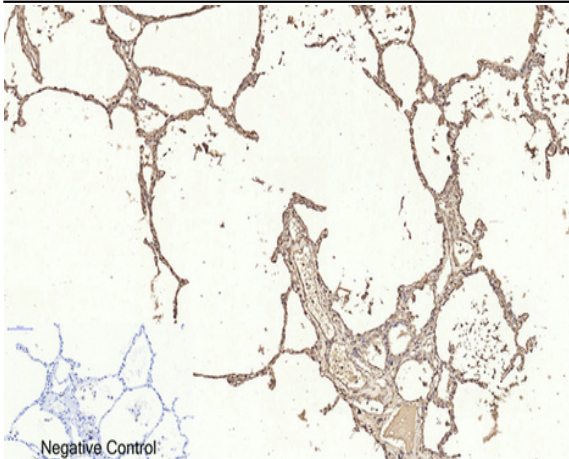
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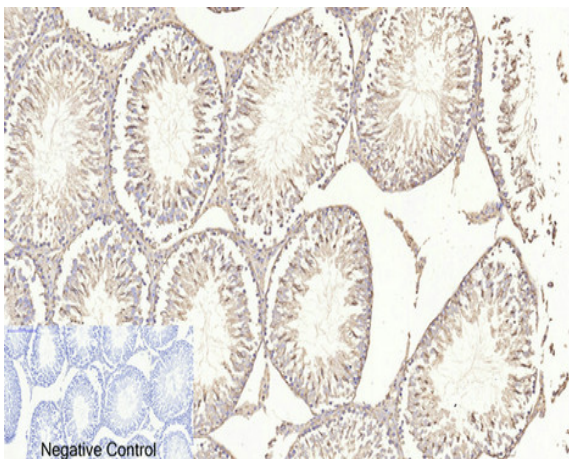
Immunofluorescence analysis of HeLa cell. 1, Cyclin A Polyclonal Antibody (red) was diluted at 1:200 (4° overnight). β -actin Monoclonal Antibody (5B7) (green) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000 (room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000 (room temperature, 50min).



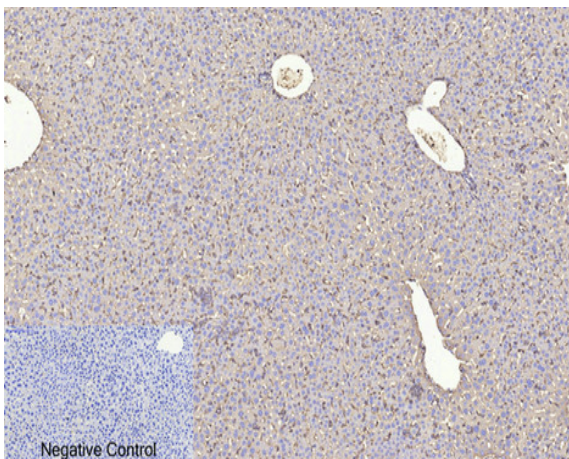
Western blot analysis of 1 HEK293 2 SW480 3 HEPG2 4 MCF-7 5 mouse brain 6 Rat brain 7 HeLa 8 A549 lysates, primary antibody was diluted at 1:5000, 4° over night, secondary antibody (cat: RS23910) was diluted at 1:10000, 37° 1 hour.



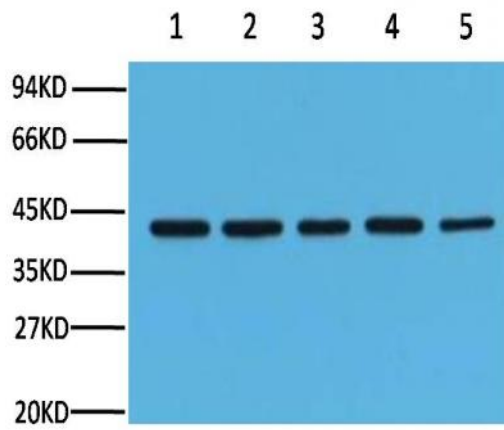
Immunohistochemical analysis of paraffin-embedded Human-lung tissue. 1, β -actin Monoclonal Antibody(5B7) was diluted at 1:200(4 °C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98 °C, 20min). 3, Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



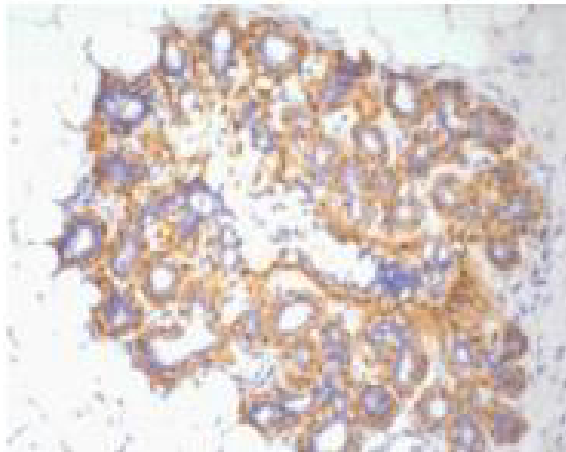
Immunohistochemical analysis of paraffin-embedded Rat-testis tissue. 1, β -actin Monoclonal Antibody(5B7) was diluted at 1:200(4 °C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98 °C, 20min). 3, Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-liver tissue. 1, β -actin Monoclonal Antibody(5B7) 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.



Western blot analysis of Hela (1) Rat brain (2) Mouse brain (3) Chicken lung (4) and Rabbit testis (5), diluted at 1:10000.



IHC Staining of Human ovary tissue, diluted at 1:200