

**Actin pan (ABT-ACTN) mouse mAb**

<b>Catalog No :</b>	YM6143
<b>Reactivity :</b>	Human; Mouse (predicted: Rat; Bovin; Pig; Chick)
<b>Applications :</b>	WB; IHC;ELISA
<b>Target :</b>	Actin pan
<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>	Actin-pan
<b>Protein Name :</b>	Actin pan
<b>Human Swiss Prot No :</b>	P60709/Q9BYX7/P63261
<b>Immunogen :</b>	Synthesized peptide derived from human Actin pan AA range: 300-377
<b>Specificity :</b>	This antibody detects endogenous levels of Actin pan. Heat-induced epitope retrieval (HIER) Citrate buffer of pH6.0 was highly recommended as antigen repair method in paraffin section
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Mouse, Monoclonal/IgG2a, Kappa
<b>Dilution :</b>	IHC 1:200-400, WB 1:500-2000, ELISA 1:5000-20000
<b>Purification :</b>	The antibody was affinity-purified from mouse ascites by affinity-

chromatography using specific immunogen.

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

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**Cell Pathway :** Vascular smooth muscle contraction;

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**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],

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**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

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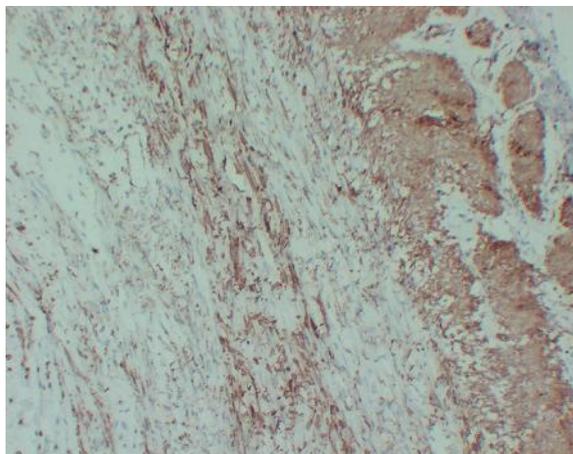
**Subcellular Location :** Cytoplasm, cytoskeleton . Nucleus . Localized in cytoplasmic mRNP granules containing untranslated mRNAs. .

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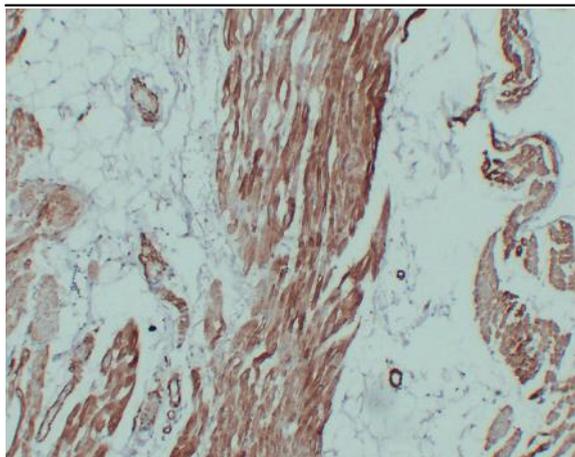
**Expression :** B-cell lymphoma,Brain,Cajal-Retzius cell,Eye,Fetal brain cortex,Foreskin,Hepatocellular car

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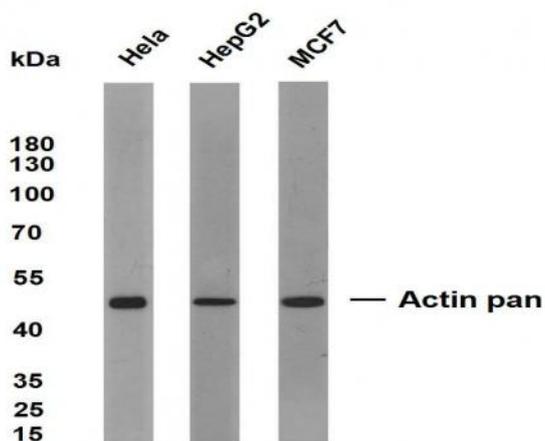
## Products Images



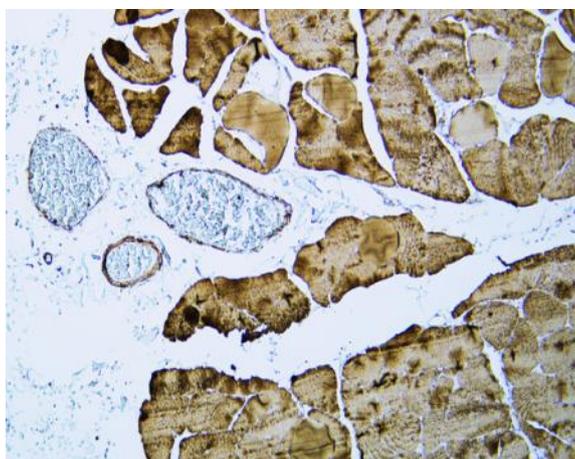
Human appendix tissue was stained with Anti-Actin pan (ABT-ACTN) Antibody



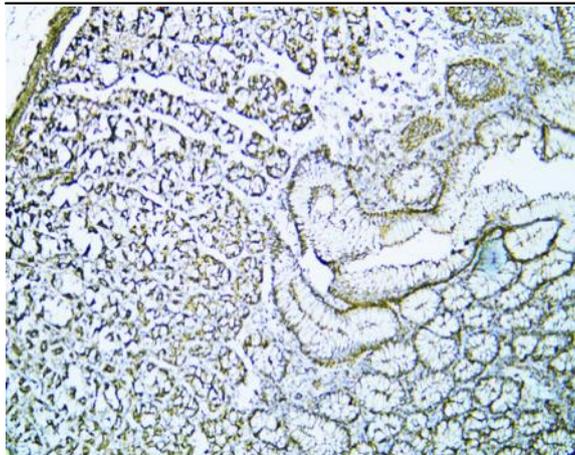
Human cardiac muscle tissue was stained with Anti-Actin pan (ABT-ACTN) Antibody



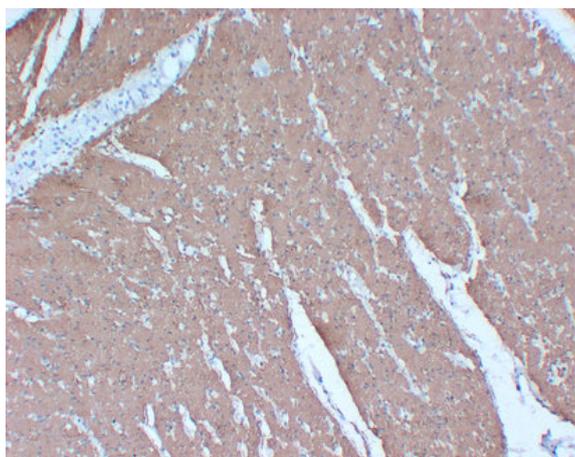
Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Actin(ABT-ACTN) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: HepG2 Lane 3: MCF7 Predicted band size: 42kDa Observed band size: 42kDa



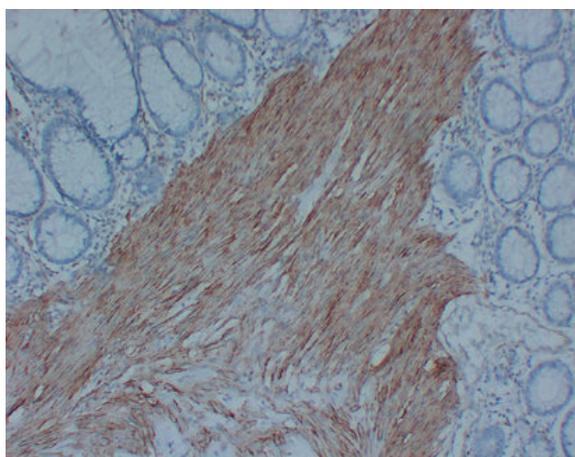
Human skeletal muscle tissue was stained with Anti-Actin pan (ABT-ACTN) Antibody



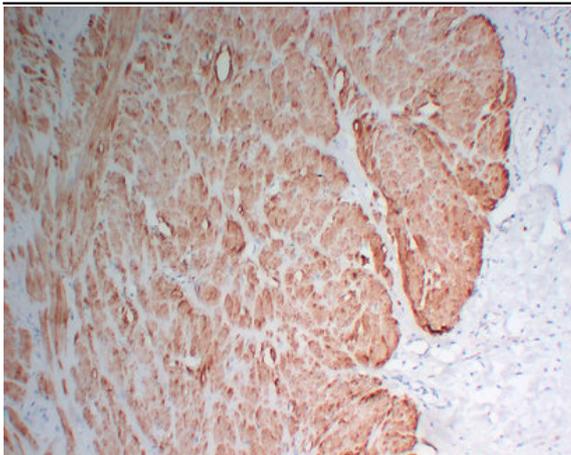
Human stomach tissue was stained with Anti-Actin pan (ABT-ACTN) Antibody



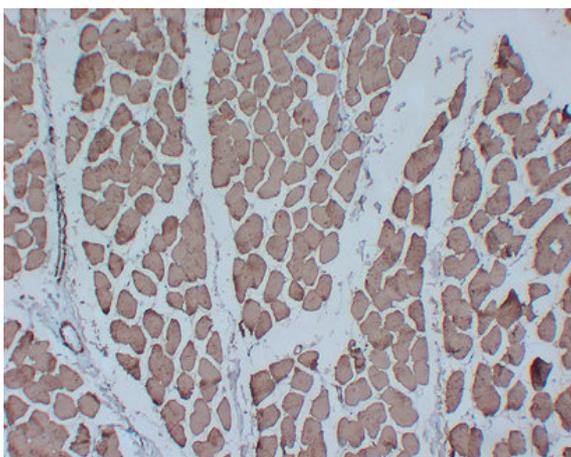
Immunohistochemical analysis of paraffin-embedded Colon. 1, Antibody was diluted at 1:200(4° overnight). 2, Citric acid ,pH6.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



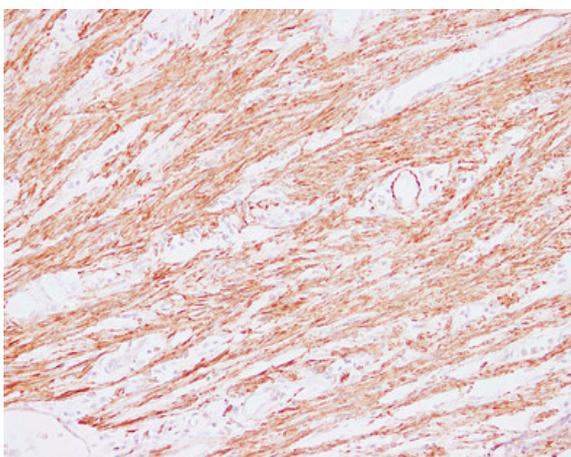
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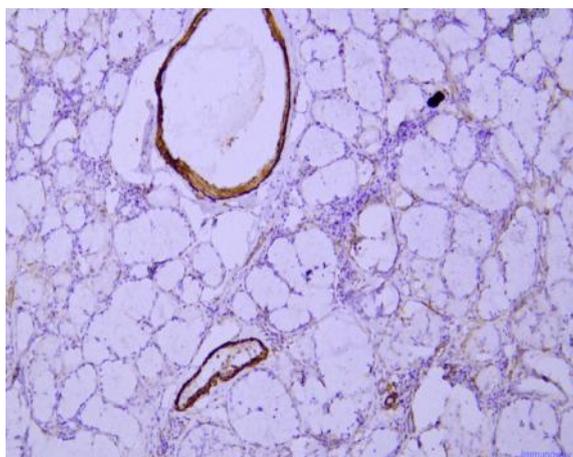
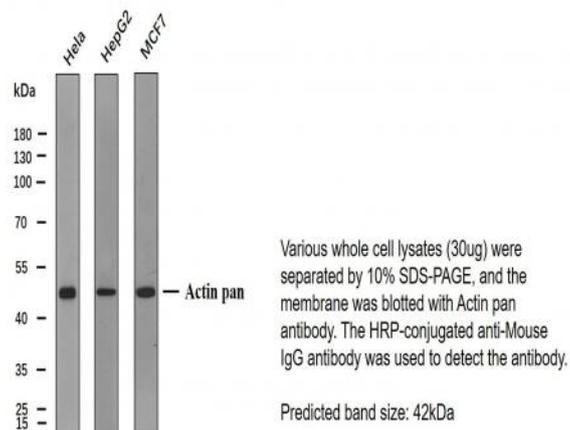


Immunohistochemical analysis of paraffin-embedded Skeletal muscle. 1, Antibody was diluted at 1:200(4° overnight). 2, Citric acid ,pH6.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).

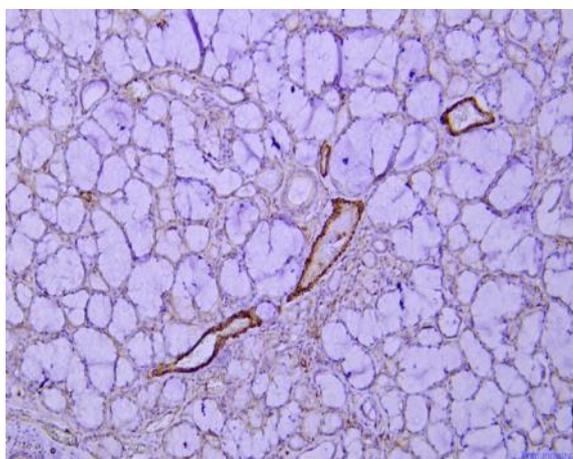


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Western blot analysis of Actin-panAntibody at 1:1000 dilution.



Immunohistochemical analysis of paraffin-embedded human Salivary gland tonsils Antibody was diluted at 1:200(4° overnight).



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