Product **Datasheet**

Anti-β-actin Rabbit pAb

WL01372

For Research Use Only.Not For Use In Diagnostic Procedures

Product Information

Product name	Anti-β-actin Rabbit pAb
Source	Rabbit
Species reactivity	Human, Mouse, Rat
Tested applications	Western blot 1:500-1:1000 Immunohistochemistry 1:100-1:200 Immunofluorescence 1:300
	**Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.*
Molecular Wt.	42 kDa
Pack size	50/100/200/500/1000μl
Storage	Store at -20°C. Avoid freeze/thaw cycles.
Storage buffer	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide

General Information

Background

Actin, a ubiquitous eukaryotic protein, is the major component of the cytoskeleton. At least six isoforms are known in mammals. Nonmuscle β- and γ-actin, also known as cytoplasmic actin, are predominantly expressed in nonmuscle cells, controlling cell structure and motility.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.Cleavage of actin under apoptotic conditions has been observed in vitro and in cardiac and skeletal muscle, as shown in research studies. Actin cleavage by caspase-3 may accelerate ubiquitin/proteasome-dependent muscle proteolysis.

Immunogen

Polyclonal antibody is produced by immunizing animals with recombinant protein of β-actin .

Purification

Polyclonal antibody was purified by immunogen affinity chromatography.

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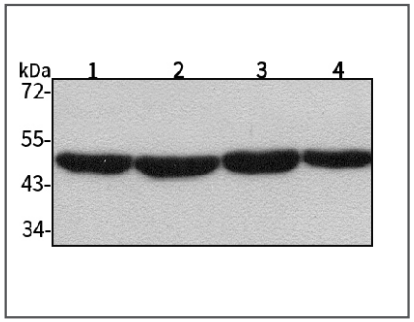
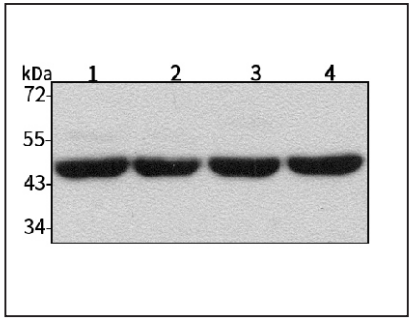
Product Images



Western blot-Anti-β-actin pAb

Lane 1: Human HepG2 cell lysate 20μg
Lane 2: Human Hela cell lysate 20μg
Lane 3: Human BGC-823 cell lysate 20μg
Lane 4: Human MGC-803 cell lysate 20μg
Separation gel: 11% polyacrylamide
Electrophoresis: 100V, 4°C, 3h
Transmembrane: 100V, 4°C, 1h
Blocking: 5% w/v nonfat dry milk, 1×TBST, at RT with gentle shaking
Primary antibody: 1:500 in blocking buffer, 4°C, overnight
Secondary antibody-HRP: 1:7000 in blocking buffer, RT, 45min
Visualization: ECL



Western blot-Anti-β-actin pAb

Lane 1: Mouse lung tissue lysate 20μg
Lane 2: Mouse skin tissue lysate 20μg
Lane 3: Rat stomach tissue lysate 20μg
Lane 4: Rat kidney tissue lysate 20μg
Separation gel: 11% polyacrylamide
Electrophoresis: 100V, 4°C, 3h
Transmembrane: 100V, 4°C, 1h
Blocking: 5% w/v nonfat dry milk, 1×TBST, at RT with gentle shaking
Primary antibody: 1:500 in blocking buffer, 4°C, overnight
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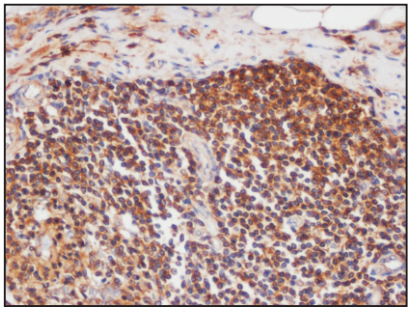
Visualization: ECL



Immunohistochemistry-Anti-β-actin pAb

Sample: Human stomach cancer tissue
Antigen retrieval: pH 9.0 Tris-EDTA buffer
Primary antibody: 1:200, 4°C, overnight
Secondary antibody-Biotin: 1:150, 37°C, 1h
Streptavidin-HRP: 1:200, 37°C, 30min
Visualization: DAB

Wanleibio Co.,Ltd. *400-602-0407* *sales@wanleibio.com* *www.wanleibio.com*

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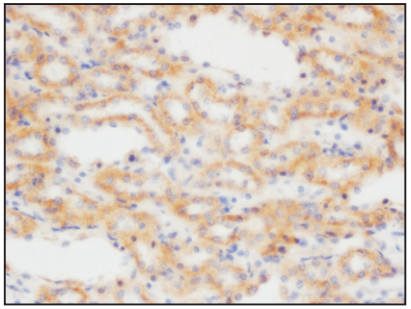
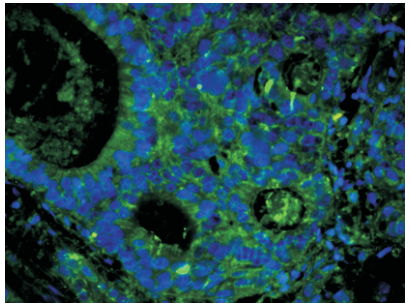


Immunohistochemistry-Anti-β-actin pAb

Sample: Rat kidney tissue
Antigen retrieval: pH 9.0 Tris-EDTA buffer
Primary antibody: 1:200, 4°C, overnight
Secondary antibody-Biotin: 1:150, 37°C, 1h
Streptavidin-HRP: 1:200, 37°C, 30min
Visualization: DAB



Immunofluorescence-Anti-β-actin pAb

Sample: Human colon cancer tissue
Primary antibody: 1:300, 4°C, overnight
Secondary antibody-FITC: 1:200,at room temperature, 1h