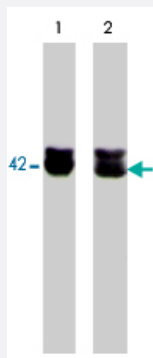


ACTB polyclonal antibody

Catalog # PAB7880 Size 100 uL

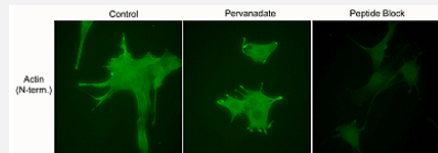
Applications



Western Blot (Cell lysate)

Western blot analysis of mouse C2C12 cells untreated (lane 1), or treated with pervanadate (1 mM) for 30 min (lane 2). The blot was probed with ACTB polyclonal antibody (Cat # PAB7880).

Immunofluorescence



Immunocytochemical labeling using ACTB polyclonal antibody (Cat # PAB7880) in C2C12 cells untreated (control) or treated with pervanadate (1 mM) for 30 min.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ACTB.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human ACTB.
Host	Rabbit
Reactivity	Chicken, Human, Mouse, Rat
Specificity	This sequence is identical to similar regions in all four α actins, as well as in γ actin, and is well conserved in actins from most eukaryotic species.
Form	Liquid

Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000) Immunocytochemistry (1:50) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 1 mg/mL BSA, 0.05% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of mouse C2C12 cells untreated (lane 1), or treated with pervanadate (1 mM) for 30 min (lane 2). The blot was probed with ACTB polyclonal antibody (Cat # PAB7880).

- Immunofluorescence

Immunocytochemical labeling using ACTB polyclonal antibody (Cat # PAB7880) in C2C12 cells untreated (control) or treated with pervanadate (1 mM) for 30 min.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ACTB

Entrez GeneID	60
Protein Accession#	P60709
Gene Name	ACTB
Gene Alias	PS1TP5BP1
Gene Description	actin, beta
Omim ID	102630
Gene Ontology	Hyperlink

Gene Summary

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]

Other Designations

PS1TP5-binding protein 1|actin, cytoplasmic 1|beta actin|beta cytoskeletal actin

Publication Reference

- [Phosphorylation of actin Tyr-53 inhibits filament nucleation and elongation and destabilizes filaments.](#)

Liu X, Shu S, Hong MS, Levine RL, Korn ED.

PNAS 2006 Sep; 103(37):13694.

Application: WB, Recombinant protein

- [Actin-binding proteins.](#)

Winder SJ, Ayscough KR.

Journal of Cell Science 2005 Feb; 118(Pt 4):651.

Application: WB, Human, Mammalian cells

- [Actin tyrosine dephosphorylation by the Src homology 1-containing protein tyrosine phosphatase is essential for actin depolymerization after membrane IgM cross-linking.](#)

Baba T, Fusaki N, Shinya N, Iwamatsu A, Hozumi N.

The Journal of Immunology 2003 Apr; 170(7):3762.

Pathway

- [Adherens junction](#)
- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Focal adhesion](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Leukocyte transendothelial migration](#)
- [Pathogenic Escherichia coli infection - EHEC](#)
- [Regulation of actin cytoskeleton](#)
- [Tight junction](#)
- [Vibrio cholerae infection](#)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)