ACTB monoclonal antibody, clone 137CT26.1.1

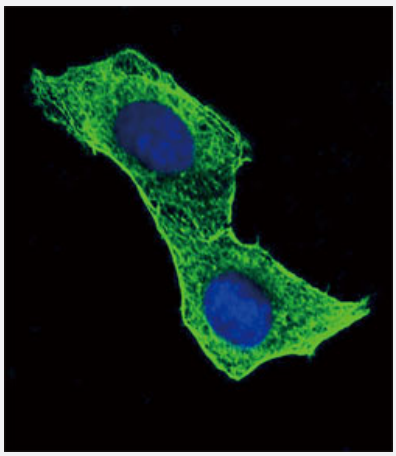
Catalog # MAB12291 Size 400 uL

Applications



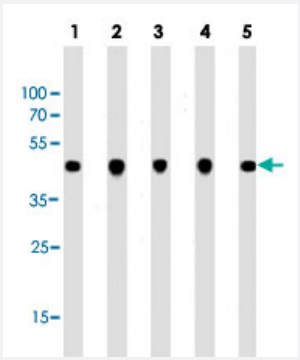
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of formalin-fixed and paraffin-embedded human skeletal muscle section reacted with ACTB monoclonal antibody (Cat # MAB12291) at 1:25 dilution.



Immunofluorescence

Immunofluorescent staining of Hela cell reacted with ACTB monoclonal antibody (Cat # MAB12291) at 1:10-1:50 dilution.



Western Blot (Cell lysate)

Western blot analysis of Lane 1: A431 whole cell lysates Lane 2: C2C12 whole cell lysates Lane 3: C6 whole cell lysates Lane 4: Hela whole cell lysates Lane 5: MCF-7 whole cell lysates reacted with ACTB monoclonal antibody (Cat # MAB12291) at 1:1000 dilution.

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Specification

Product Description	Mouse monoclonal antibody raised against human ACTB.
Immunogen	Recombinant protein corresponding to human ACTB.
Host	Mouse
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Protein G purification
Isotype	IgG1, kappa
Recommend Usage	Immunohistochemistry (1:25) Immunofluorescence (1:10-1:50) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunofluorescence

  Immunofluorescent staining of Hela cell reacted with ACTB monoclonal antibody (Cat # MAB12291) at 1:10-1:50 dilution.

- Western Blot (Cell lysate)

  Western blot analysis of Lane 1: A431 whole cell lysates Lane 2: C2C12 whole cell lysates Lane 3: C6 whole cell lysates Lane 4: Hela whole cell lysates Lane 5: MCF-7 whole cell lysates reacted with ACTB monoclonal antibody (Cat # MAB12291) at 1:1000 dilution.

Gene Info — ACTB

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Entrez GeneID	60
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 ar e 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

- Increased acute blood flow induced by the aqueous extract of Euterpe oleracea Mart. fruit pulp in rats in vivo is not related to the direct activation of endothelial cells.

  Victória Caroline Bottino Pontes, Juliana Pereira Tavares de Melo Tavares, Tatiana Rosado Rosenstock, Domingos Sávio Rodrigues, Marcelo Icimoto Yudi, Jaqueline Pereira Moura Soares, Suzana Cosa Ribeiro, Rafael Sutti, Luce Maria Brandão Torres, Fabiana Henriques Machado de Melo, Maria Thereza Gamberini.

  Journal of Ethnopharmacology 2021 Feb; 271:113885.

  Application: WB-Ce, Rat, Rat endothelial cells

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

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- Vibrio cholerae infection

Disease

- Breast cancer
- Breast Neoplasms

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