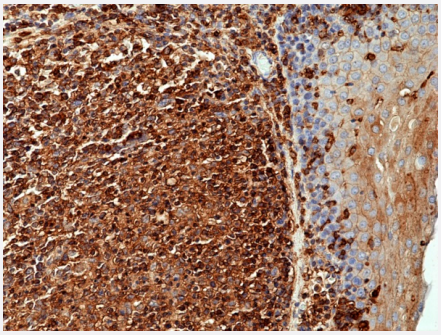
RecomAb™

beta-actin monoclonal antibody, clone RM112

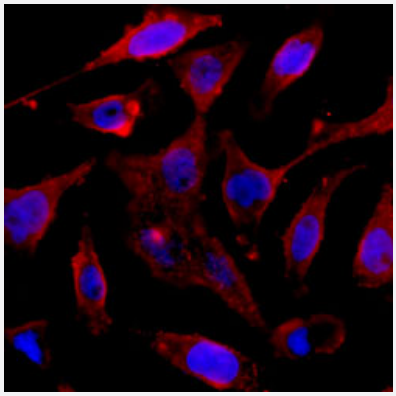
Catalog # MAB12828 Size 100 uL

Applications



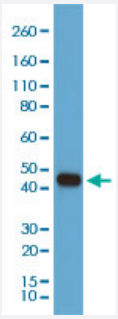
Immunohistochemistry

Immunohistochemical staining of formalin fixed and paraffin embedded human tonsil tissue using beta-actin monoclonal antibody, clone RM112 (Cat# MAB12828) at a 1:1000 dilution.



Immunocytochemistry

Immunocytochemistry staining of A431 cells with beta-actin monoclonal antibody, clone RM112 (Cat # MAB12828) (Red) at 1:200 dilution. Nuclear DNA was stained with DAPI (Blue).



Western Blot (Cell lysate)

Western blot analysis of A431 cells using beta-actin monoclonal antibody, clone RM112 (Cat # MAB12828) at 1:1000 dilution.

Specification

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Product Description	Rabbit recombinant monoclonal antibody raised against of human beta-actin.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to N-terminus region of human beta-actin.
Sequence	N/A
Specificity	This antibody reacts to beta-Actin (Actin, cytoplasmic 1). No cross reactivity with other isoforms of Actin.
Form	Liquid
Purification	Protein A affinity purification
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry Immunocytochemistry (1:200) Immunohistochemistry (1:200) Immunoprecipitation (1:200) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 1% BSA, 0.09% 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

- Immunohistochemistry

  Immunohistochemical staining of formalin fixed and paraffin embedded human tonsil tissue using beta-actin monoclonal antibody, clone RM112 (Cat# MAB12828) at a 1:1000 dilution.

- Immunohistochemistry

- Immunocytochemistry

  Immunocytochemistry staining of A431 cells with beta-actin monoclonal antibody, clone RM112 (Cat # MAB12828) (Red) at 1:200 dilution. Nuclear DNA was stained with DAPI (Blue).

- Flow Cytometry

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- Enzyme-linked Immunoabsorbent Assay
- Immunoprecipitation
- Western Blot (Cell lysate)

  Western blot analysis of A431 cells using beta-actin monoclonal antibody, clone RM112 (Cat # MAB12828) at 1:1000 dilution.

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 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

- GM130-silencing may aggravate blood-brain barrier damage and affect microglia polarization by down-regulating PD-L1 expression after experimental intracerebral hemorrhage.

  Xiqian Chen, Yijun Ren, Pinghui Xie, Qiang Lei, Wei Lu.

  Mol Biol Rep. 2024 Aug 19;51(1):919. doi: 10.1007/s11033-024-09859-x. 2024 Aug; 51(1):919.

  Application: WB, Rat, Brain tissue
- Momordica anti-HIV protein MAP30 abrogates the Epstein-Barr virus nuclear antigen 1 dependent functions in host cells.

  Wei-Hang Huang, Wen-Min Su, Chung-Wei Wang, Yue-Hao Fang, Yuan-Wei Jian, Hao-Jen Hsu, Chih-Wen Peng.

  Heliyon 2023 Oct; 9(11):e21486.

  Application: WB, Human, AKATA, BJAB, LCL cells

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- Dual peptide-dendrimer conjugate inhibits acetylation of transforming growth factor β-induced protein and improves survival in sepsis.

  Wonhwa Lee, Eun Ji Park, Oh Kwang Kwon, Hyelim Kim, Youngbum Yoo, Shin-Woo Kim, Young-Kyo Seo, In-San Kim, Dong Hee Na, Jong-Sup Bae.

  Biomaterials 2020 Jul; 246:120000.

  Application: WB-Ce, Human, HUVECs

- Autosomal Dominant PTH Gene Signal Sequence Mutation in a Family with Familial Isolated Hypoparathyroidism.

  Cinque L, Sparaneo A, Penta L, Mencarelli A, Rogaia D, Esposito S, Fabrizio FP, Baorda F, Verrotti A, Falorni A, Stangoni G, Hendy GN, Guarnieri V, Prontera P.

  The Journal of Clinical Endocrinology and Metabolism 2017 Nov; 102(11):3961.

  Application: WB-Tr, Human, HEK 293 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
- Vibrio cholerae infection

Disease

- Breast cancer
- Breast Neoplasms

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