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Datasheet for ABIN3020544
anti-beta Actin antibody

34 Images

67 Publications

Overview

Quantity:	100 µL
Target:	beta Actin (ACTB)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This beta Actin antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Fusion protein of human beta-Actin
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Loading control Antibodies
Purification:	Affinity purification

Target Details

Target:	beta Actin (ACTB)
Alternative Name:	ACTB (ACTB Products)
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

Target Details

contractile apparatus and one of the two nonmuscle cytoskeletal actins.,ACTB,BRWS1,PS1TP5BP1,beta actin,actin,Signal Transduction,Cell Biology & Developmental Biology,Cytoskeleton,Microfilaments,Protein folding,Death Receptor Signaling Pathway,Endocrine & Metabolism,Mitochondrial metabolism,Immunology & Inflammation,ACTB

Molecular Weight: 41 kDa

Gene ID: 60

UniProt: [P60709](#)

Pathways: [Myometrial Relaxation and Contraction](#), [Cell-Cell Junction Organization](#), [Maintenance of Protein Location](#), [Phototransduction](#)

Application Details

Application Notes: WB,1:10000 - 1:100000,IF,1:50- 1:200,IP,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid freeze / thaw cycles

Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in: Zhi, Yang, Liu, Jiang, Pang: "Early missed abortion is associated with villous angiogenesis via the HIF-1 α /VEGF signaling pathway." in: **Archives of gynecology and obstetrics**, Vol. 298, Issue 3, pp. 537-543, (2018) ([PubMed](#)).

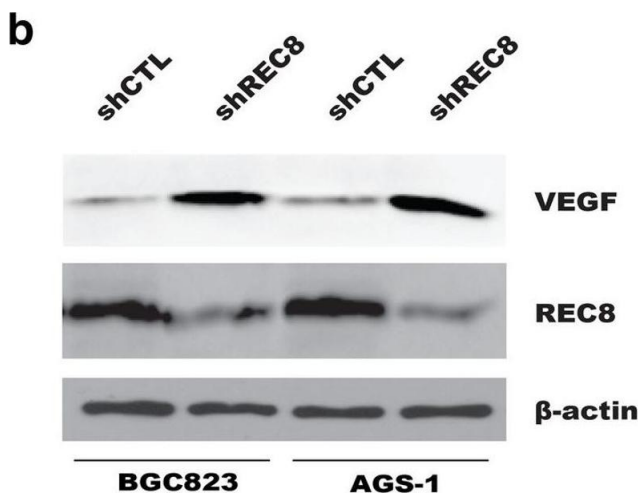
Chen, Yu, Yuan, Zhang, Fan, Yuan, Zhang, Yao: "Enriched housing promotes post-stroke

functional recovery through astrocytic HMGB1-IL-6-mediated angiogenesis." in: **Cell death discovery**, Vol. 3, pp. 17054, (2017) ([PubMed](#)).

Yin, Zhao, Li, Yan, Zhou, Chen, Wang: "miR-320a mediates doxorubicin-induced cardiotoxicity by targeting VEGF signal pathway." in: **Aging**, Vol. 8, Issue 1, pp. 192-207, (2016) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images

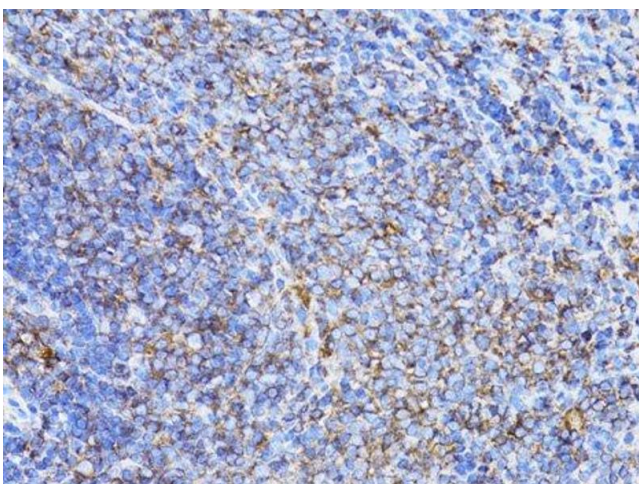


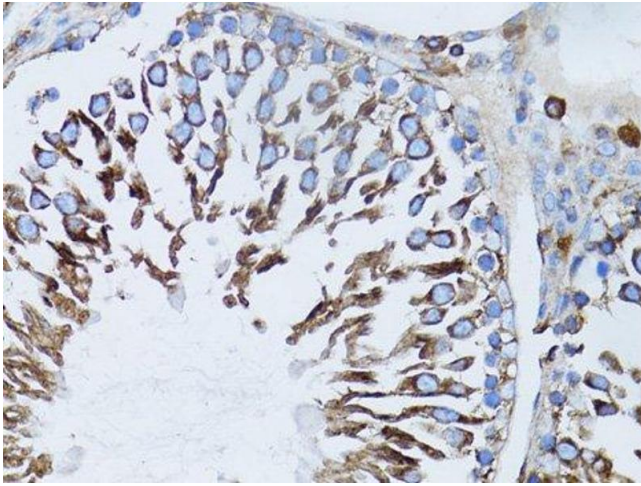
Western Blotting

Image 1. Depletion of REC8 enhanced HUVECs migration and tube formation through upregulation of VEGF in gastric cancer cells. a-c The mRNA and protein level of VEGF were analyzed by real-time qPCR, western blotting and ELISA in BGC823 and AGS-1 cells. *** $p < 0.001$, ** $p < 0.01$ versus shCTL. d-g Transwell assay and tube formation assay were employed to detect HUVEC migration and tube formation with or without neutralizing VEGF antibody in CM from indicated group in BGC823 cells. Quantification was performed to analyze the statistical significance. *** $p < 0.001$ - figure provided by CiteAb. Source: PMID32958054

Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry of paraffin-embedded rat testis using β -actin antibody.





Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry of paraffin-embedded rat liver using β -actin antibody.

Please check the [product details page](#) for more images. Overall 34 images are available for ABIN3020544.