

Datasheet for ABIN968977

anti-beta Actin antibody (N-Term)**3** Images**5** Publications[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	beta Actin (ACTB)
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This beta Actin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	beta-Actin Antibody
Immunogen:	Synthetic peptide corresponding to amino-terminal residues of human beta-Actin, conjugated to KLH.
Clone:	8H10D10
Isotype:	IgG2b
Purification:	Ascitic fluid

Target Details

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

Target Details

Background:	<p>Description: Beta-actin (PS1TP5-binding protein 1), also known as ACTB, PS1TP5BP1. Entrez Protein NP_001092. It is one of six different actin proteins. Actin, a ubiquitous eukaryotic protein, is the major component of the cytoskeleton. Actins are highly conserved proteins that are involved in various types of cell motility, structure, and integrity. Actin is ubiquitously expressed in all eukaryotic cells. This actin is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins.</p> <p>Aliases: PS1TP5BP1, ACTB</p>
Molecular Weight:	42kDa
Gene ID:	60
HGNC:	60
UniProt:	P60709
Pathways:	Myometrial Relaxation and Contraction , Cell-Cell Junction Organization , Maintenance of Protein Location , Phototransduction

Application Details

Application Notes:	ELISA: 1/10000 FCM: 1/200 - 1/400 ICC: 1/200 - 1/1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Publications

Product cited in:	Zou, Ren, Liu, Fu, Chen, Li, Luo, He, Gao, Zeng, Xiong, Li, Huang, Xu, Zhang: "Inhibin B
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suppresses anoikis resistance and migration through the transforming growth factor- β signaling pathway in nasopharyngeal carcinoma." in: **Cancer science**, Vol. 109, Issue 11, pp. 3416-3427, (2018) ([PubMed](#)).

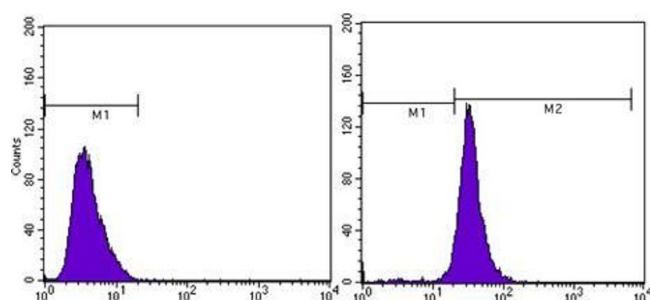
Rual, Venkatesan, Hao, Hirozane-Kishikawa, Dricot, Li, Berriz, Gibbons, Dreze, Ayivi-Guedehoussou, Klitgord, Simon, Boxem, Milstein, Rosenberg, Goldberg, Zhang, Wong, Franklin, Li, Albala, Lim et al.: "Towards a proteome-scale map of the human protein-protein interaction network. ..." in: **Nature**, Vol. 437, Issue 7062, pp. 1173-8, (2005) ([PubMed](#)).

Xu, Wratten, Charych, Buyske, Firestein, Brzustowicz: "Increased expression in dorsolateral prefrontal cortex of CAPON in schizophrenia and bipolar disorder." in: **PLoS medicine**, Vol. 2, Issue 10, pp. e263, (2005) ([PubMed](#)).

Pederson, Aebi: "Nuclear actin extends, with no contraction in sight." in: **Molecular biology of the cell**, Vol. 16, Issue 11, pp. 5055-60, (2005) ([PubMed](#)).

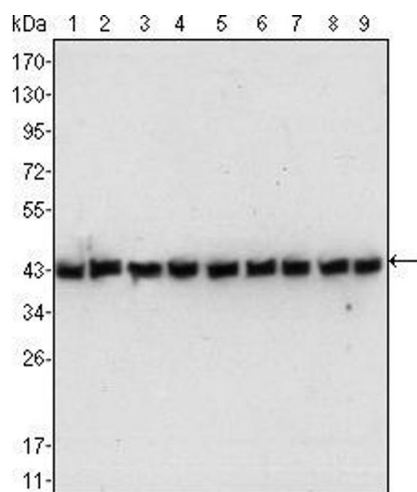
Bruneel, Labas, Mailloux, Sharma, Royer, Vinh, Pernet, Vaubourdolle, Baudin: "Proteomics of human umbilical vein endothelial cells applied to etoposide-induced apoptosis." in: **Proteomics**, Vol. 5, Issue 15, pp. 3876-84, (2005) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometric analysis of MCF-7 cells using beta Actin mouse mAb (right) and negative control (left).



Western Blotting

Image 2. Western blot analysis using beta-Actin mouse mAb against NIH/3T3 (1), Jurkat (2), Hela (3), CHO (4), PC12 (5), HEK293 (6), COS (7), A549 (8) and MCF-7 (9) cell lysate.

Immunofluorescence

Image 3. Confocal immunofluorescence analysis of SKBR-3 (left) and A549 (right) cells using beta Actin mouse mAb (red, the secondary Ab is Cy3-Goat anti mouse IgG). Blue: DRAQ5 fluorescent DNA dye.

