Beta Actin (ACTB) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	beta Actin (ACTB), Polyclonal Antibody
Full Product Name	beta Actin Antibody FITC
Product Gene Name	anti-ACTB antibody
Product Synonym Names	FITC-Conjugated Actin, cytoplasmic 1 Antibody; A26C1A antibody; A26C1B antibody; ACTB antibody; Actin beta antibody; Actin cytoplasmic 1 antibody; Actin, cytoplasmic 1, N-terminally processed antibody; Actx antibody; b actin antibody; Beta cytoskeletal actin antibody; Beta-actin antibody; BRWS1 antibody; PS1TP5 binding protein 1 antibody; PS1TP5BP1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Immobilized antigen affinity chromatography
Concentration	0.5-1.5 ug/ul in antibody stabilization buffer (lot specific)
Preparation and Storage	Store at -20 degree C for long term storage.
Molecular Weight	41,737 Da
3D Structure	ModBase 3D Structure for P60709
Immunogen	Synthetic peptide taken within amino acid region 325-375 on human Actin, cytoplasmic 1 protein.
Determinant	C-epitope
Conjugation	FITC
Molecular Function	ATP binding; Identical protein binding; Kinesin binding; nitric-oxide synthase binding; structural constituent of cytoskeleton; Tat protein binding
Applications Tested/Suitable for anti-ACTB antibody	ELISA (EIA), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-ACTB antibody	ELISA: 1:10,000 IP: 1:200 WB: 1:500
Related Product Information for anti-ACTB antibody	Overview: Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. Structure: Belongs to the actin family.
Other Notes	Small volumes of anti-ACTB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ACTB purchase	MBS5400308 is an antibody targeting ACTB. Also known as beta Actin Antibody FITC. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACTB. It may not necessarily be applicable to this product.

NCBI GI #	16359158
NCBI GeneID	60
NCBI Accession #	AAH16045
UniProt Primary Accession #	P60709
UniProt Secondary Accession #	P02570; P70514; P99021; Q11211; Q64316; Q75MN2; Q96B34; Q96HG5
UniProt Related Accession #	P60709
NCBI Official Full Name	Actin, beta
NCBI Official Synonym Full Names	actin beta
NCBI Official Symbol	ACTB
NCBI Official Synonym Symbols	BRWS1; PS1TP5BP1
UniProt Protein Name	Actin, cytoplasmic 1
UniProt Synonym Protein Names	Beta-actin
Protein Family	Actin
UniProt Gene Name	ACTB
NCBI Protein Information	actin, cytoplasmic 1
NCBI Summary for ACTB	This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, integrity, and intercellular signaling. The encoded protein is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins that are ubiquitously expressed. Mutations in this gene cause Baraitser-Winter syndrome 1, which is characterized by intellectual disability with a distinctive facial appearance in human patients. Numerous pseudogenes of this gene have been identified throughout the human genome. [provided by RefSeq, Aug 2017]
UniProt Comments for ACTB	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.MiscellaneousIn vertebrates 3 main groups of actin isoforms, alpha, beta and gamma have been identified. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins coexist in most cell types as components of the cytoskeleton and as mediators of internal cell motility.CautionWas originally thought to be part of the MLL5-L complex, at least composed of KMT2E, STK38, PPP1CA, PPP1CB, PPP1CC, HCFC1, ACTB and OGT (PubMed:19377461). However, the corresponding article has been retracted (PubMed:24336203).
Research Articles on ACTB	**1.** Baraitser-Winter cerebrofrontofacial syndrome is caused by missense mutations in the cytoplasmic beta- and gamma-actin genes ACTB and ACTG1. We provide an overview of the clinical characteristics (including some novel findings in four recently diagnosed patients), diagnosis, management, mutation spectrum and genetic counselling.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-actb-human-mouse-rat-antibody/beta-actin/5400308