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Datasheet for ABIN1096107
beta Actin Protein (AA 2-375) (His tag)

Overview

Quantity:	50 µg
Target:	beta Actin (ACTB)
Protein Characteristics:	AA 2-375
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This beta Actin protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human β -Actin/ACTB (C-6His)
Sequence:	DDIAALVVD NGSGMCKAGF AGDDAPRAVF PSIVGRPRHQ GVMVGMGQKD SYVGDEAQSK RGILTLKYPI EHGIVTNWDD MEKIWHHTFY NELRVAPEEH PVLLTEAPLN PKANREKMTQ IMFETFNTPA MYVAIQAVLS LYASGRTTGI VMDSGDGVTH TVPIYEGYAL PHAILRLDLA GRDLTDYLMK ILTERGYSFT TTAEREIVRD IKEKLCYVAL DFEQEMATAA SSSSLEKSYE LPDGQVITIG NERFRCPEAL FQPSFLGMES CGIHETTENS IMKCDVDIRK DLYANTVLSG GTTMYPGIAD RMQKEITALA PSTMKIKIIA PPERKYSVWI GGSILASLST FQQMWISKQE YDESGPSIVH RKCFLHHHHH HH
Characteristics:	Recombinant Human beta-Actin/ACTB is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Phe375) of Human ACTB fused with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	beta Actin (ACTB)
Alternative Name:	beta-Actin (ACTB Products)
Sub Type:	Fusionprotein
Background:	<p>Actins are ubiquitous globular and highly conserved proteins that are involved in various types of cell motility, structure, and integrity. Three 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 co-exist in most cell types as components of the cytoskeleton, and as mediators of internal cell motility. ACTB is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins. Polymerization of globular actin (G-actin) leads to a structural filament (F-actin) in the form of a two-stranded helix. Each actin can bind to 4 others.</p> <p>Alternative Names: Actin Cytoplasmic 1, Beta-Actin, ACTB</p>
Molecular Weight:	42.8 kDa
UniProt:	P60709
Pathways:	Myometrial Relaxation and Contraction , Cell-Cell Junction Organization , Maintenance of Protein Location , Phototransduction

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 10 mM TrisHCl, 0.1 % TritonX-100, 2 mM DTT, pH 8.0.
Preservative:	Dithiothreitol (DTT)

Handling

Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months