Recombinant Human Beta-actin/ACTB Protein

Catalog No.: RP02968LQ

Sequence Information

Species
Human

Gene ID
60

Swiss Prot
P60709

Tags
C-His

Synonyms
Actin Cytoplasmic 1; Beta-Actin; ACTB; β-actin

Product Information

Source
E. coli

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
42.8 kDa

Observed MW
43 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.2 μm filtered solution of 10mM Tris-HCl, 0.1% TritonX-100, 2mM DTT, 10% Glycerol, pH 8.0.

Reconstitution

Background

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.

Basic Information

Description
Recombinant Human Beta-actin/ACTB Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Asp2-Phe375) of Human Beta-actin/ACTB (Accession #NP_001092.1) fused with a 6×His tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

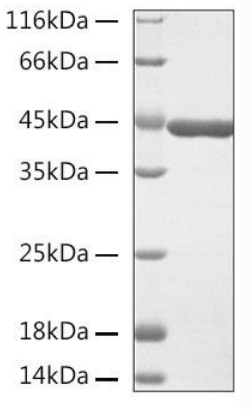
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



Recombinant Human Beta-actin/ACTB Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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