

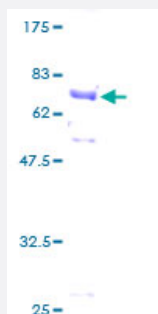
Full-Length

ACTB (Human) Recombinant Protein (P01)

Catalog # H00000060-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ACTB full-length ORF (AAH01301, 1 a.a. - 375 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDDDIAALVVDNGSGMCKAGFAGDDAPRAVSPSIVGRPRHQGV MVGMGQKDSYVGDEAQS KR
GILTLKYPIEHGVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPKANREKMTQIMFETFNT
PAMYVAIQAVLSLYASGRTTGIVMDSGDGVTHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTERG
YSFTTTAEREINRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPDGQVITIGNERFRCPEALFQP
SFLGMESCGIHETTFNSIMKCDVDIRKDLYANTVLSGGTTMYPGIADRMQKEITALAPSTMKIKIAPP
ERRYSVWIGGSILASLSTFQQMWISKQEYDESGPSIVHRKCF

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

66.99

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ACTB

Entrez GeneID [60](#)**GeneBank Accession#** [BC001301](#)**Protein Accession#** [AAH01301](#)**Gene Name** ACTB**Gene Alias** PS1TP5BP1**Gene Description** actin, beta**Omim ID** [102630](#)**Gene Ontology** [Hyperlink](#)

Gene Summary 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 contractile apparatus and one of the two nonmuscle cytoskeletal actins. [provided by RefSeq]

Other Designations PS1TP5-binding protein 1|actin, cytoplasmic 1|beta actin|beta cytoskeletal actin

Publication Reference

- [Yin and Yang Regulation of Liver X Receptor \$\alpha\$ Signaling Control of Cholesterol Metabolism by Poly\(ADP-ribose\) polymerase 1.](#)

Fengxiao Zhang, Cheng Wang, Yuhang Jiang, Kun Huang, Fangmei Liu, Meng Du, Xi Luo, Dan Huang, Kai Huang.

International Journal of Biological Sciences 2020 Sep; 16(15):2868.

Application: PI, N/A, Recombinant protein

- [Poly\(ADP-ribose\) Polymerase 1 Is Indispensable for Transforming Growth Factor-beta Induced Smad3 Activation in Vascular Smooth Muscle Cell.](#)

Huang D, Wang Y, Wang L, Zhang F, Deng S, Wang R, Zhang Y, Huang K.

PLoS One 2011 Oct; 6(10):e27123.

Application: Far-Western blot, Rat, Vascular smooth muscle cells

Pathway

- [Adherens junction](#)
- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Focal adhesion](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Leukocyte transendothelial migration](#)
- [Pathogenic Escherichia coli infection - EHEC](#)
- [Regulation of actin cytoskeleton](#)
- [Tight junction](#)
- [Vibrio cholerae infection](#)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)