

Recombinant Full Length Human ACTG2 Protein, GST-tagged

Cat. No. ACTG2-820HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ACTG2 full-length ORF (AAH12617, 1 a.a. - 376 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	376 amino acids
Description	Actins are highly conserved proteins that are involved in various types of cell motility and in the maintenance of the cytoskeleton. Three types of actins, alpha, beta and gamma, have been identified in vertebrates. 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. This gene encodes actin gamma 2; a smooth muscle actin found in enteric tissues. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Based on similarity to peptide cleavage of related actins, the mature protein of this gene is formed by removal of two N-terminal peptides.[provided by RefSeq, Dec 2010]
Molecular Mass	66.88 kDa
AA Sequence	MCEEETTALV CDNGSGLCKA GFAGDDAPRA VFPSIVGRPR HQGVMVGMGQ KDSYVGDEAQ SKRGILTLYK PIEHGIITNW DDMEKIWHHS FYNELRVAPE EHPTLLTEAP LNPKANREKM TQIMFETFNV PAMYVAIQAV LSLYASGRTT

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GIVLDSGDGV THNVPIYEGY ALPHAIMRLD LAGRDLTDYL MKILTERGYS
 FVTTAEREIV RDIKEKLCYV ALDFENEMAT AASSSSLEKS YELPDGQVIT
 IGNERFRCPE TLFQPSFIGM ESAGIHETTY NSIMKCDIDI RKDLYANNVL
 SGGTTMYPGI ADRMQKEITA LAPSTMKIKI IAPPERKYSV WIGGSILASL
 STFQQMWISK PEYDEAGPSI VHRKCF

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

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

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

GENE INFORMATION

Gene Name [ACTG2 actin, gamma 2, smooth muscle, enteric \[Homo sapiens \]](#)

Official Symbol [ACTG2](#)

Synonyms ACTG2; actin, gamma 2, smooth muscle, enteric; ACTA3, ACTL3; actin, gamma-enteric smooth muscle; ACTSG; alpha-actin 3; alpha-actin-3; gamma-2-actin; actin-like protein; smooth muscle gamma actin; smooth muscle gamma-actin; ACT; ACTE; ACTA3; ACTL3

Gene ID [72](#)

mRNA Refseq [NM_001199893](#)

Protein Refseq [NP_001186822](#)

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MIM	102545
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UniProt ID	P63267
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