

Recombinant Human ACTG2 Protein, GST-tagged

Cat. No. ACTG2-217H **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	Wheat Germ
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	MCEEETALVCDNGSGLCKAGFAGDDAPRAVFPSIVGRPRHQGVMMVGMGQKDSY VGDEAQSKRGILTLKYPIEHGIITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPLN PKANREKMTQIMFETFNVPAMYVAIQAVLSLYASGRTTGIVLDSGDGVTHNVPIYEG YALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENEM

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ATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETTYNSIMKC
DIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIPPERKYSVWIGGSI
LASLSTFQQMWISKPEYDEAGPSIVHRKCF

Applications

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

Notes

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

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](#)

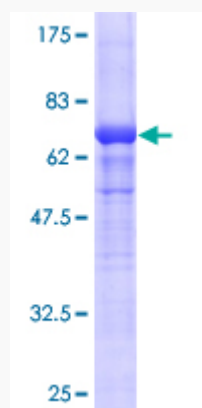
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MIM 102545

UniProt ID P63267



12.5% SDS-PAGE Stained with Coomassie Blue.

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