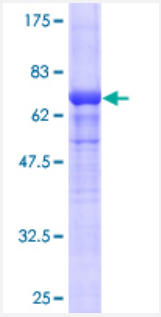
Full-Length | Sm Size

ACTG2 (Human) Recombinant Protein (P01)

Catalog # H00000072-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ACTG2 full-length ORF (AAH12617, 1 a.a. - 376 a.a.) recombinant protein with GST-tag at N -terminal.
Sequence	MCEEETTALVCDNGSGLCKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQKDSYVGDEAQSK RGILTLKYPIEHGIITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFNV PAMYVAIQAVLSLYASGRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERG YSFVTTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQP SFIGMESAGIHETTYNSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPE RKYSVWIGGSILASLSTFQQMWISKPEYDEAGPSIVHRKCF
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	66.88
Interspecies Antigen Sequence	Mouse (100); Rat (100)
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.

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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 — ACTG2

Entrez GeneID	72
GeneBank Accession#	BC012617
Protein Accession#	AAH12617
Gene Name	ACTG2
Gene Alias	ACT, ACTA3, ACTE, ACTL3, ACTSG
Gene Description	actin, gamma 2, smooth muscle, enteric
Omim ID	102545
Gene Ontology	Hyperlink
Gene Summary	Actins are highly conserved proteins that are involved in various types of cell motility, and mainten ance of the cytoskeleton. In vertebrates, three main groups of actin isoforms, alpha, beta and gam ma 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 component s of the cytoskeleton, and as mediators of internal cell motility. Actin, gamma 2, encoded by this g ene, is a smooth muscle actin found in enteric tissues. [provided by RefSeq
Other Designations	actin, gamma 2|actin-like protein|alpha-actin 3|smooth muscle gamma actin

Pathway

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- Vascular smooth muscle contraction

Disease

- Cholestasis
- Pre-Eclampsia
- Pregnancy Complications

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