

Recombinant Human ACTG2 protein ab157842

1 Image

Description	
Product name	Recombinant Human ACTG2 protein
Expression system	Wheat germ
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MCEEETALVCDNGSGLCKAGFAGDDAPRAVFPSIVGRP RHQGVVMGMGQ KDSYVGDEAQSKRGILTLKYPIEHGITNWDDMEKIWHHSFY NELRVAPE EHPTLLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQAVL SLYASGRTT GMVLDSGDGVTHNVPIEGYALPHAIMRLDLAGRDLTDYLM KILTERGYS FVTTAERENVRDIKEKLCYVALDFENEMATAASSSSLEKSY ELPDGQVIT IGNERFRCPETLFQPSFIGMESAGIHETTYNSIMKCDIDIRKD LYANNVL SGGTTMYPGIADRMQKEITALAPSTMKIKIAPPERKYSVWI GGSILASL STFQQMWISKPEYDEAGPSMHRKCF
Amino acids	1 to 376
Tags	GST tag N-Terminus

Specifications	
Our Abpromise guarantee covers the use of ab157842 in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
Applications	ELISA Western blot
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml.

Preparation and Storage

Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function

Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

Sequence similarities

Belongs to the actin family.

Post-translational modifications

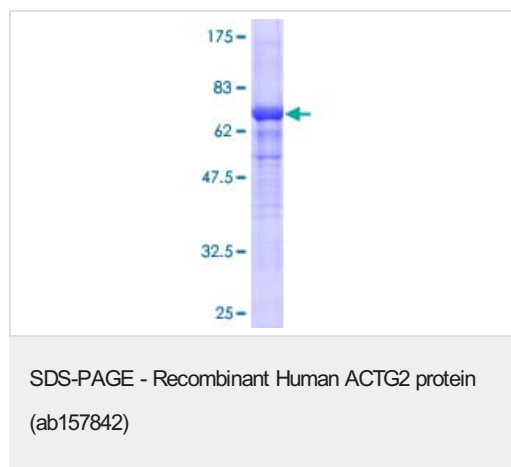
Oxidation of Met-45 and Met-48 by MICALs (MICAL1, MICAL2 or MICAL3) to form methionine sulfoxide promotes actin filament depolymerization. MICAL1 and MICAL2 produce the (R)-S-oxide form. The (R)-S-oxide form is reverted by MSRB1 and MSRB2, which promote actin repolymerization.

Monomethylation at Lys-85 (K84me1) regulates actin-myosin interaction and actomyosin-dependent processes. Demethylation by ALKBH4 is required for maintaining actomyosin dynamics supporting normal cleavage furrow ingression during cytokinesis and cell migration.

Cellular localization

Cytoplasm > cytoskeleton.

Images



ab157842 on a 12.5% SDS-PAGE stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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