

Recombinant Human ACTN1 Protein, GST-tagged

Cat. No. ACTN1-229H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ACTN1 partial ORF (NP_001093, 543 a.a. - 639 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	<p>Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. This gene encodes a nonmuscle, cytoskeletal, alpha actinin isoform and maps to the same site as the structurally similar erythroid beta spectrin gene. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p>
Molecular Mass	36.41 kDa
AA Sequence	EIQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIVQTYHVN MAGTNPYTTITPQEIN GKWDHVRQLVPRRDQALTEEHARQQHNERLRKQFGAQA
Applications	Enzyme-linked Immunoabsorbent Assay

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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.

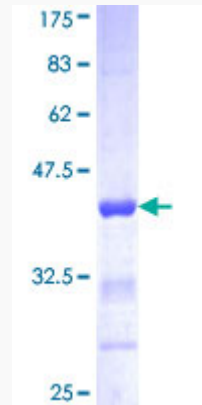
GENE INFORMATION

Gene Name	ACTN1 actinin, alpha 1 [Homo sapiens]
Official Symbol	ACTN1
Synonyms	ACTN1; actinin, alpha 1; alpha-actinin-1; actinin 1 smooth muscle; non-muscle alpha-actinin-1; F-actin cross-linking protein; alpha-actinin cytoskeletal isoform; FLJ40884; FLJ54432;
Gene ID	87
mRNA Refseq	NM_001102
Protein Refseq	NP_001093
MIM	102575
UniProt ID	P12814

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12.5% SDS-PAGE Stained with Coomassie Blue.

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