

Recombinant Full Length Human ACTN4 Protein, GST-tagged

Cat. No. ACTN4-584HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human ACTN4(1 a.a. - 911 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	911 amino acids
Description	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, alpha actinin isoform which is concentrated in the cytoplasm, and thought to be involved in metastatic processes. Mutations in this gene have been associated with focal and segmental glomerulosclerosis.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	131.3 kDa
AA Sequence	MVDYHAANQS YQYGPSSAGN GAGGGGSMGD YMAQEDDWDR DLLLDPAWEK

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QQRKTFTAWC NSHLRKAGTQ IENIDEDFRD GLKLMLLLEV ISGERLPKPE
 RGKMRVHKIN NVNKALDFIA SKGVKLVSIG AEEIVDGNK MTLGMIWTII
 LRFAIQDISV EETSAKEGLL LWCQRKTAPY KNVNVQNFHI SWKDGLAFNA
 LIHRHRPELI EYDKLRKDDP VTNLNNAFEV AEKYLDIPKM LDAEDIVNTA
 RPDEKAIMTY VSSFYHAFSG AQKAETAANR ICKVLAVNQE NEHLMEDYEK
 LASDLLEWIR RTPWLEDVR PQKTIQEMQQ KLEDFRDYRR VHKPPKVQEK
 CQLEINFNTL QTKLRLSNRP AFMPSEGKMV SDINNGWQHL EQAEKGYYEWW
 LLNEIRRLER LDHLAEKFRQ KASIHEAWTD GKEAMLKHRD YETATLSDIK
 ALIRKHEAFE SDLAHQDRV EQIAAIAQEL NELDYYDSHN VNTRCQKICD
 QWDALGSLTH SRREALEKTE KQLEAIDQLH LEYAKRAAPF NNWMESAMED
 LQDMFIVHTI EEIEGLISAH DQFKSTLPDA DREREAILAI HKEAQRIAES
 NHIKLSGSPN YTTVTPQIIN SKWEKVQQLV PKRDHALLEE QSKQQSNEHL
 RRQFASQANV VGPWIQTKME EIGRISIEMN GTLEDQLSHL KQYERSIVDY
 KPNLDLLEQQ HQLIQEALIF DNKHTNYTME HIRVGWEQLL TTIARTINEV
 ENQILTRDAK GISQEQMQEF RASFNHFDKD HGGALGPEEF KACLISLGYD
 VENDRQGEAE FNRIMSLVDP NHSGLVTFQA FIDFMSRETT DTDADQVIA
 SFKVLAGDKN FITAEELRRE LPPDQAEYCI ARMAPYQGGP AVPGALDYKS
 FSTALYGESD L

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.

GENE INFORMATION
Gene Name

ACTN4 actinin, alpha 4 [Homo sapiens]

Official Symbol

ACTN4

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Synonyms	ACTN4; actinin, alpha 4; focal segmental glomerulosclerosis 1 , FSGS1; alpha-actinin-4; actinin alpha4 isoform; non-muscle alpha-actinin 4; F-actin cross-linking protein; focal segmental glomerulosclerosis 1; FSGS; FSGS1; ACTININ-4; DKFZp686K23158
Gene ID	81
mRNA Refseq	NM_004924
Protein Refseq	NP_004915
MIM	604638
UniProt ID	O43707

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