

P90376Mu01
Actinin Alpha 2 (ACTN2)
Organism: Mus musculus (Mouse)
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

3th Edition (Revised in February, 2012)

[DESCRIPTION]

Protein Names: Actinin Alpha 2

Gene Names: ACTN2

Size: 100µg

Source: Recombinant

Expression Host: *E. coli*

Function: F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein.

Subcellular Location: Cytoplasm; myofibril; sarcomere; Z line. Note: Colocalizes with MYOZ1 and FLNC at the Z-lines of skeletal muscle.

[PROPERTIES]

Residues: Met1~His254 (Accession # Q9JI91), with a N-terminal His-tag.

Grade & Purity: >97%, 31 kDa as determined by SDS-PAGE reducing conditions.

Form & Buffer: Supplied as lyophilized form in PBS, pH 7.4.

Endotoxin Level: <1.0 EU per 1µg (determined by the LAL method).

Applications: SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

Predicted Molecular Mass: 31 kDa



[PREPARATION]

Reconstitute in PBS.

[STORAGE AND STABILITY]

Storage: Store at 4°C for short time storage (1-2 weeks). Aliquot and store at -20°C or -80°C for long term storage. Avoid repeated freeze/thaw cycles.

Valid period: 12 months stored at -80°C.

[BACKGROUND]

The target protein is fused with a His-tag and its sequence is listed below. The first Met is an initiator amino acid. Moreover, Gly and Ser are added to improve the flexibility of N-terminus at both ends of the His-tag, which will increase the chelating ability of the tag to Ni-Sepharose during purification.

MGHHHHHSGSEF-MNQIEPGVQY NYVYDEDEYM IQEEEWDRDL LLDPAWEKQQ RKTFTAWCNS
HLRKAGTQIE NIEEDFRNGL KLMLLLEVIS GERLPKPDRG KMRFHKIANV NKALDYIASK GVKLVSIGAE
EIVDGNVKMT LGMIWTIILR FAIQDISVEE TSAKEGLLLW CQRKTAPYRN VNIQNFHTSW KDGLGLCALI
HRHRPDLIDY SKLNKDDPIG NINLAMEIAE KHLDIPKMLD AEDIVNTPKP DERAIMTYVS CFYH

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