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**YB90376Mu01**  
**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:** 100 $\mu$ g

**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 1 $\mu$ g (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 LGMIWTILR FAIQDISVEE TSAKEGLLLW CQRKTAPYRN VNIQNFHTSW KDGLGLCALI  
HRHRPDLIDY SKLNKDDPIG NINLAMEIAE KHLDPKMLD AEDIVNTPKP DERAIMTYVS CFYH

