

Product datasheet for **TP308531L**

ACTN2 (NM_001103) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human actinin, alpha 2 (ACTN2), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208531 representing NM_001103 Red =Cloning site Green =Tags(s)

MNQIEPGVQYNYVYDEDEYMIQEEEWDRDLLLDPAWEKQQRKFTAWCNSHLRKAGTQIENIEEDFRNGL
KLMMLLEVISGERLPKPDRGKMRFHKIANVVKALDYIASKGVKLVSIGAEIVDGNVMTLGMWITILR
FAIQDISVEETSAKEGLLLWCQRKTAPYRNVNIQNFHTSWKDGGLCALIHRHRPDLIDYSKLNKDDPIG
NINLAMEIAEKHLDIPKMLDAEDIVNTPKPDRAIMTYVSCFYHAFAGAEQAETAANRICKVLAVNQENE
RLMEEYERLASELLEWIRRTIPWLENRTPEKTMQAMQKKLEDFRDYRRKHKPPKVQEKQCQLEINFNTLQT
KLRISNRPAFMPSEGKMVSDIAGAWQRLEQAEKGYEEWLLNEIRRLERLEHLAEKFRQKASTHETWAYGK
EQILLQKDYESASLTVRALLRKHEAFESDLAAHQDRVEQIAAIAQELNELDYHDAVNVNDRQCQKICDQW
DRLGTLTQKRREALRMEKLETIDQLHLEFAKRAAPFNNWMEGAMEDLQDMFIVHSIEEIQSLITAEHQ
FKATLPEADGERQSIMAIQNEVEKVIQSYNIRISSNPYSTVTMDELRTKWVKVQLVPIRDQSLQEELA
RQHANERLRRQFAAQANAIGPWIQNKMEIARSSIQITGALEDQMNQLKQYEHNIINYKNNIDKLEGDHQ
LIQEALVFDNKHTNYTMEHIRVWELLTTIARTINEVETQILTRDAKGITQEQMNEFRASFNHFDRRKN
GLMDHEDFRACLISMGYDLGEAEFARIMTLVDPNGQGTVTFQSFIDFMTRETADTDTAEQVIASFRILAS
DKPYILAEELRRELPPDQAQYCIKRMPPAYSGPGSVPGALDYAAFSSALYGESDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	103.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_001094](#)

Locus ID: 88

UniProt ID: [P35609](#)

RefSeq Size: 4181

Cytogenetics: 1q43

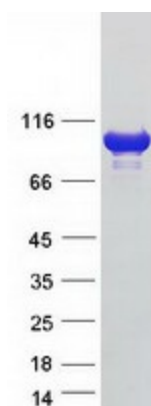
RefSeq ORF: 2682

Synonyms: CMD1AA; CMH23; MPD6; MYOCOZ

Summary: 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 muscle-specific, alpha actinin isoform that is expressed in both skeletal and cardiac muscles. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2013]

Protein Pathways: Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Systemic lupus erythematosus, Tight junction

Product images:



Coomassie blue staining of purified ACTN2 protein (Cat# [TP308531]). The protein was produced from HEK293T cells transfected with ACTN2 cDNA clone (Cat# [RC208531]) using MegaTran 2.0 (Cat# [TT210002]).