

Product datasheet for **TP308531**

ACTN2 (NM_001103) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human actinin, alpha 2 (ACTN2), 20 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC208531 representing NM_001103
Red=Cloning site **Green**=Tags(s)

MNQIEPGVQYNYVYDEDEYMIQEEEWDRDLLLPAWEKQQRKFTAWCNSHLRKAGTQIENIEEDFRNGL
KMLLLEVISGERLPKPDGRGKMRFHKIANVVKALDYIASKGVKLVSIGAEEIVDGNVMTLGMWITILR
FAIQDISVEETSACEGLLLWCQRKTAPYRNVNIQNFHTSWKDGGLCALIHRHRPDLIDYSKLNKDDPIG
NINLAMEIAEKHLDIPKMLDAEDIVNTPKPDRAIMTYVSCFYHAFAGAEQAETAANRICKVLAVNQENE
RLMEEYERLASELLEWIRRTIPWLENRTPEKTMQAMQKKLEDFRDYRRKHKPPKVQEKQCQLEINFNTLQT
KLRISNRPAFMPSEGKMVSDIAGAWQRLEQAEGYEEWLLNEIRRLERLEHLAEKFRQKASTHETWAYGK
EQILLQKDYESASLTVRALLRKHEAFESDLAAHQDRVEQIAAIAQELNELDYHDAVNVNDRQCQKICDQW
DRLGTLTQKRREALRMEKLETIDQLHLEFAKRAAPFNNWMEGAMEDLQDMFIVHSIEEIQSLITAEHQ
FKATLPEADGERQSIMAIQNEVEKVIQSYNIRISSNPYSTVTMDELRTKWVKVQLVPIRDQSLQEELA
RQHANERLRRQFAAQANAIGPWIQNKMEIARSSIQITGALEDQMNQLKQYEHNIINYKNNIDKLEGDHQ
LIQEALVFDNKHTNYTMEHIRVWELLTTIARTINEVETQILTRDAKGITQEQMNEFRASFNHFDRRKN
GLMDHEDFRACLISMGYDLGAEAFARIMTLVDPNGQGTVTFQSFIDFMTRETADTDTAEQVIASFRILAS
DKPYILAEELRRELPPDQAQYCIKRMPPAYSGPGSVPGALDYAAFSSALYGESDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

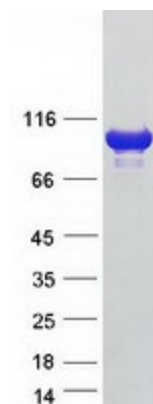
Tag: C-Myc/DDK
Predicted MW: 103.7 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity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