

Product datasheet for **TP327802L**

alpha smooth muscle Actin (ACTA2) (NM_001141945) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human actin, alpha 2, smooth muscle, aorta (ACTA2), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC227802 protein sequence Red =Cloning site Green =Tags(s)

MCEEDSTALVCDNGSGLCKAGFAGDDAPRAVFPISIVGRPRRHQGMVGMGQKDSYVGDEAQS^{Red}KRGILTLK
YPIEHGIITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQA
VLSLYASGRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREI
VRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLRFQPSFIGMESAGIHETT
YNSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILAS
LSTFQQMWISKQEYDEAGPSIVHRKCF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	41.8 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
Bioactivity:	Pull-down assay (PMID: 27991922)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.



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RefSeq: [NP_001135417](#)

Locus ID: 59

UniProt ID: [P62736](#), [D2JYH4](#)

RefSeq Size: 1798

Cytogenetics: 10q23.31

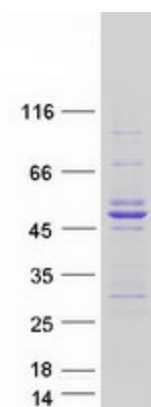
RefSeq ORF: 1131

Synonyms: ACTSA

Summary: This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, integrity, and intercellular signaling. The encoded protein is a smooth muscle actin that is involved in vascular contractility and blood pressure homeostasis. Mutations in this gene cause a variety of vascular diseases, such as thoracic aortic disease, coronary artery disease, stroke, and Moyamoya disease, as well as multisystemic smooth muscle dysfunction syndrome. [provided by RefSeq, Sep 2017]

Protein Pathways: Vascular smooth muscle contraction

Product images:



Coomassie blue staining of purified ACTA2 protein (Cat# [TP327802]). The protein was produced from HEK293T cells transfected with ACTA2 cDNA clone (Cat# [RC227802]) using MegaTran 2.0 (Cat# [TT210002]).