

Product datasheet for TP509611

Shtn1 (NM_001114312) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse shootin 1 (Shtn1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR209611 protein sequence Red =Cloning site Green =Tags(s)
	MNSSDEEKQLQLITSLKEQAIGEYEDLRAENQKTKEKCDKIRQERDEAVKKLEEFQKISHMVIEEVNFMQ NHLEIEKTCRESAEALATKLNKENKTLKRISMLYMAKLGPDVITEEINIDDDPATDTDAAAETCVSVQC QKQIKELRDQIVSVQEEKVLAIELENLKSGLGEVMEEVNKVQEKAVLNSEVLEQRKVLEKCNRVSM VEEYEELQVNLELEKDLRKAESFAQEMFIEQNKLKRQSHLLLQSSLPDQQLLKALDENAKLIQQLLEER IQHQKKVKELEERLENEALHKEIHNLRQQLLELLEDDKRELEQKYQSSEEKARNLKHVDELQKRVNQSEN SVPPPPPPPPPLPPPPPNPIRSLMSMIRKRSHPGNSAKKEKTTQPETAEEVTDLKRQAVEEMMDRIKKG VHLRPVNQTARPKAKPDSLKGSESAYDELKILGTLNKTSSRSLKSLGPENSETELERILRRRKLTAEA DSSSPTGILATSESKSMPVLGVS SVTKSALNKKTLAEFNNPCPLTPEPEGEGPRKLEGCTNPKVTFQPP SKGGYRRKCVGSENAEPVWLDPVSTHEPQTKDQAAEKDPTQFEEEGGETQPEYKEDSGGKTGETDSSN C
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	71.3 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
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 after receiving vials.
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_001107784
Locus ID:	71653
UniProt ID:	Q8K2Q9
RefSeq Size:	4081
Cytogenetics:	19 D2- D3
RefSeq ORF:	1896
Synonyms:	4930506M07Rik; Kiaa1598; mKIAA1598; Shootin1
Summary:	<p>Involved in the generation of internal asymmetric signals required for neuronal polarization and neurite outgrowth (PubMed:23864681). Mediates netrin-1-induced F-actin-substrate coupling or 'clutch engagement' within the axon growth cone through activation of CDC42, RAC1 and PAK1-dependent signaling pathway, thereby converting the F-actin retrograde flow into traction forces, concomitantly with filopodium extension and axon outgrowth. Plays a role in cytoskeletal organization by regulating the subcellular localization of phosphoinositide 3-kinase (PI3K) activity at the axonal growth cone. Plays also a role in regenerative neurite outgrowth (By similarity). In the developing cortex, cooperates with KIF20B to promote both the transition from the multipolar to the bipolar stage and the radial migration of cortical neurons from the ventricular zone toward the superficial layer of the neocortex (PubMed:23864681). Involved in the accumulation of phosphatidylinositol 3,4,5-trisphosphate (PIP3) in the growth cone of primary hippocampal neurons (PubMed:23864681). [UniProtKB/Swiss-Prot Function]</p>