

Product datasheet for TP323326

SHTN1 (NM_018330) Human Recombinant Protein

Product data:

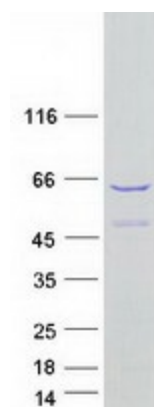
| | |
|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human KIAA1598 (KIAA1598), transcript variant 2, 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC223326 representing NM_018330 Red=Cloning site Green=Tags(s) |
| | MNSSDEEKQLQLITSLKEQAIGEYEDLRAENQKTEKCKDIRQERDEAVKKLEEFQKISHMVIEEVNFMQ NHLEIEKTCRESAEALATKLNKENKTLKRISMLYMAKLGPDVITEEINIDDEDSTTDTDGAETCVSVQC QKQIKELRDQIVSVQEEKKILAELENLKSKLVEVIEEVNKKVQKQKTVLNSEVLEQRKVKLEKCNRVSM VEEYEMQVNLELEKDLRKAESFAQEMFIEQNKLKRQSHLLLQSSIPDQQLKALDENAKLTQQLEER IQHQQVKVELEEQLNETLHKEIHNLKQQLLELEDKKELELYQNSEEKARNLKHSVDELQKRVNQSEN SVPPPPPPPPPLPPPPPNPIRSLMSMIRKRSHPSGSGAKKEKATQPETTEEVTDLKRQAVEEMMDRIKKG VHLRPVNQTARPKTKPESSKGCESAVDELKGIASQ |
| | TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag: | C-Myc/DDK |
| Predicted MW: | 52.5 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. |
| 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: | <u>NP_060800</u> |



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| | |
|---------------|---|
| Locus ID: | 57698 |
| UniProt ID: | A0MZ66 |
| RefSeq Size: | 3415 |
| Cytogenetics: | 10q25.3 |
| RefSeq ORF: | 1368 |
| Synonyms: | KIAA1598; shootin-1 |
| Summary: | Involved in the generation of internal asymmetric signals required for neuronal polarization and neurite outgrowth. 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. 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. Involved in the accumulation of phosphatidylinositol 3,4,5-trisphosphate (PIP3) in the growth cone of primary hippocampal neurons.[UniProtKB/Swiss-Prot Function] |

Product images:



Coomassie blue staining of purified SHTN1 protein (Cat# TP323326). The protein was produced from HEK293T cells transfected with SHTN1 cDNA clone (Cat# [RC223326]) using MegaTran 2.0 (Cat# [TT210002]).