

Product datasheet for TP506688

Syt1 (NM_009306) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse synaptotagmin I (Syt1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR206688 protein sequence Red =Cloning site Green =Tags(s)

MVSASRPEALAAPVTTVATLVPHNATEPASPGEKEDAFSKLKQKFMNELHKIPLPPWALIAIAIVAVLL
VWTCCFCVCKKCLFKKKKNGGKEKGGKNAINMKDVKDLGKTMKDQALKDDDAETGLTDGEEKEEPKEEE
KLGKQLQYSLDYDFQNNQLLVGIIQAAELPALDMGGTSDPYVKVFLLPDKKKKFETKVHRKTLNPFVNEQF
TFKVPYSELGGKTLVMAVYDFDRFSKHDIIGEFKVPMTVDFGHVTEWRDLQSAEKEEQEKLGDICFSL
RYVPTAGKLTWVILEAKNLKKMDVGGLSDPYVKIHLMQNGKRLKKKKTIKKNTLNPYYNESFSFEVPFE
QIQKVQVVTVLDYDKIGKNDIAIGKVFVGYNSTGAELRHWSMMLANPRRPIAQWHTLQVEEVDAMLAVK
K

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	47.4 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.
RefSeq:	<u>NP_033332</u>
Locus ID:	20979



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UniProt ID: [P46096](#), [H6RXZ1](#)

RefSeq Size: 4756

Cytogenetics: 10 56.52 cM

RefSeq ORF: 1266

Synonyms: AW124717; G630098F17Rik; Syt1

Summary: Calcium sensor that participates in triggering neurotransmitter release at the synapse (PubMed:11242035). May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse (PubMed:7961887). It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca(2+)-dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca(2+)-independent manner; these are neurexins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes (By similarity).[UniProtKB/Swiss-Prot Function]