

Product datasheet for TP306775M

Ephexin 1 (NGEF) (NM_019850) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human neuronal guanine nucleotide exchange factor (NGEF), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206775 protein sequence Red=Cloning site Green=Tags(s)

METRESEDLEKTRRKSASDQWNTDNEPAKVKPELLPEKEETSQADQDIQDKEPHCHIPIKRNSIFNRSIR
RKSKAKARDNPERNASCLADSQDNGKSVNEPLTLNIPWSRTPPCRTAMQTDPGAQEMSESSSTPGNGATP
EEWPALADSPPTTLTEALRMIHIPADSWRNIEQIGLLYQEYRDKSTLQEIETRRQQDAEIEDNTNGSPA
SEDTPEEEEEEEEEEEPASPPERKTLQPICLLSNPHSRFNLWQDLPEIRSSGVLEILQP EEIKLQEAMFE
LVTSEASYKSLNLLVSHFMENERIRKILHPSEAHILFSNVLDVLAVSERFLELEHRMEENIVISDVCD
IVYRYAADHFSVYITYVSNQTYQERTYKQLLQEKA AFRELIAQLELDPKCRGLPFSSFLILPFQRITRLK
LLVQNILKRVEERSERECTALDAHKELEMVVKACNEGVRKMSRTEQMISIQKMEFKIKSVPIISHRWL
LKQGELQQMSGPKTSRTLRTKFLFHEIYLFNDLLVICRQIPGDKYQVFD SAPRGLLRVEELEDQGQTL
ANVFILRLLENADDREATYMLKASSQSEMKRWMTSLAPNRRTKFVSFTSRLLDCPQVQCVHPYVAQQPDE
LTLELADILNILDKTDDGWIFGERLHDQERGWFPSSMTEEILNPKIRSQNLKECFRVHKMDDDPQRSQNKD
RRKLGSRNRQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	82.3 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
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.



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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_062824
Locus ID:	25791
UniProt ID:	Q8N5V2
RefSeq Size:	3184
Cytogenetics:	2q37.1
RefSeq ORF:	2130
Synonyms:	ARHGEF27; EPHEXIN
Summary:	Acts as a guanine nucleotide exchange factor (GEF) which differentially activates the GTPases RHOA, RAC1 and CDC42. Plays a role in axon guidance regulating ephrin-induced growth cone collapse and dendritic spine morphogenesis. Upon activation by ephrin through EPHA4, the GEF activity switches toward RHOA resulting in its activation. Activated RHOA promotes cone retraction at the expense of RAC1- and CDC42-stimulated growth cone extension (By similarity). [UniProtKB/Swiss-Prot Function]
Protein Pathways:	Axon guidance

Product images:



Coomassie blue staining of purified NGEF protein (Cat# [TP306775]). The protein was produced from HEK293T cells transfected with NGEF cDNA clone (Cat# [RC206775]) using MegaTran 2.0 (Cat# [TT210002]).