

## Product datasheet for TP509421

### Trak1 (NM\_175114) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse trafficking protein, kinesin binding 1 (Trak1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR209421 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MALAIQLRQPSRAQPLPGLSHTLAGTDSCDVCNSTNLPEVEIISLLEEQLPHYKLRADTIYGYDHDWDLH  
TPLISPDANIDLTTTEQIEETLKYFLLCAERVGQMTKYNDIDAVTRLLEEKERDLELAARIGQSLLKKNK  
TLTERNELLEEQVEHIREEVSQLRHELMSKDELLQFYTSAAESEPESVCSTPLKRNESSSVQNYFHLD  
SLQKKLKDLEEENVLRSEACQLKTETITYEEKEQQLVNDVCVKELRDANVQIASISEELAKKTEDAARQQ  
EEITHLLSQIVDLQKKAKSCAVENEELVQHLGAAKDAQRLTAELRELEDKYAECMEMLHEAQEELKNLR  
NKTMPSTRRYHSLGLFPMDSLAAEIEGTMRKELQLELESPDITHQKRVFETVRNVNQVVKQRSLTPSPM  
NIPGSNQSSAMNSLLSSCVSTPRSSFYGSVDVSNVLDNKTNSILLETEAADLGNEDHNKKPGTPTGPGSH  
DLETALRRLSLRRENYLSERRFFEEEQERKLRLEAEKELHSGSLTPTESIMSLGTHSRFSEFTGFSGMS  
FSSRSYLPEKLQIVKPLEGSATLHHWQQLAOPHLGGILDPRPGVWTKGFRTLDVDLDEVYCLNDFEEDDT  
GDHISLAGLATSTPIQHPETSAAHPGKCMSQTNSTFTFTTCRILHPSDELTRVTPSLNSAPAPACSSTSH  
LKSTPVATPCTPRRLSLAESFTNVRESTTMMSTSLGLVWLLKERGISAAVYDPQSWDRAGRGSLLHSYTP  
RMAVIPSTPPNSPMQTPSASPPSFEFKCTSPYNNFLASKPASSILREVREKRPVRSSESQTDVSVSNLN  
LVDKVRFRFGVARVNSGRARIPTLTEEQGPLLCGPTGPAQALVPGGLVPEGLPLGCPGSGIRNRNSFPTMV  
GSSVQMRAPVILTSGILMGAKLPKQTSLR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	104.5 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



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_780323</a>
<b>Locus ID:</b>	67095
<b>UniProt ID:</b>	<a href="#">Q6PD31</a>
<b>RefSeq Size:</b>	4914
<b>Cytogenetics:</b>	9 72.41 cM
<b>RefSeq ORF:</b>	2820
<b>Synonyms:</b>	2310001H13Rik; AI413908; AI467545; hyrt; mKIAA1042
<b>Summary:</b>	Involved in the regulation of endosome-to-lysosome trafficking, including endocytic trafficking of EGF-EGFR complexes and GABA-A receptors (By similarity). Involved in mitochondrial motility (PubMed:24995978). When O-glycosylated, abolishes mitochondrial motility. Crucial for recruiting OGT to the mitochondrial surface of neuronal processes (By similarity). TRAK1 and RHOT form an essential protein complex that links KIF5 to mitochondria for light chain-independent, anterograde transport of mitochondria (By similarity).[UniProtKB/Swiss-Prot Function]