

Product datasheet for **TP509132**

Optn (NM_181848) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse optineurin (Optn), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA	>MR209132 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MSHQPLSCLTEKGDSPCETPGNGPSNMVHPSLDTFTPEELLQQMKELLVENHQLKEAMKLNNQAMKGRFE
ELSAWTEKQKEERLLFEMQSKEVKERLKALTHENERLKEELGKFKEKSEKPLEDLTGGYRYPRALEEEVE
KLKTQVEQEVEHLKIQVMRLRAEKADLLGIVSELQKLNSGGSSSEDSFVEIRMTEGETEGAMKEMKNCPT
PTRTDPILSNCTEDARSCAEFEELTVSQQLLLCLREGNQKVERLEVALREAKERISDFEKKANGHSSTEK
QTARRADREKEDKGQESVGSEVETLSIQVTSLFKELQEAHTKLSEAELMKKRLQEKQALERKNSATPSE
LNEKQELVYSNKKLELQVESMRSEIKMEQAKTEEEKSRLATLQATHNKLLQEHNKALKTIEELTKQQA EK
VDKMLLQELSEKLELAEQALASKQLQMDKQTLAKQEEDLETMAVLRAQMEVYCSDFHAERAAREKIHE
EKEQLALQLAILLKENNDIEEGGSRQSLMEMQCRHGARTSDSDQQTLYFQRGAEDRSWQHGGQQRPSIPIH
SCPCKCGEVLDPIDTLQIHVMDCII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	67 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_862896](#)

Locus ID: 71648

UniProt ID: [Q8K3K8](#)

RefSeq Size: 2413

Cytogenetics: 2 3.15 cM

RefSeq ORF: 1755

Synonyms: 4930441O07Rik; FIP2; HYPL; NRP

Summary: Plays an important role in the maintenance of the Golgi complex, in membrane trafficking, in exocytosis, through its interaction with myosin VI and Rab8. Links myosin VI to the Golgi complex and plays an important role in Golgi ribbon formation. Plays a role in the activation of innate immune response during viral infection. Mechanistically, recruits TBK1 at the Golgi apparatus, promoting its trans-phosphorylation after RLR or TLR3 stimulation. In turn, activated TBK1 phosphorylates its downstream partner IRF3 to produce IFN-beta. Plays a neuroprotective role in the eye and optic nerve. May act by regulating membrane trafficking and cellular morphogenesis via a complex that contains Rab8 and huntingtin (HD). Mediates the interaction of Rab8 with the probable GTPase-activating protein TBC1D17 during Rab8-mediated endocytic trafficking, such as of transferrin receptor (TFRC/TfR); regulates Rab8 recruitment to tubules emanating from the endocytic recycling compartment. Autophagy receptor that interacts directly with both the cargo to become degraded and an autophagy modifier of the MAP1 LC3 family; targets ubiquitin-coated bacteria (xenophagy), such as cytoplasmic *Salmonella enterica*, and appears to function in the same pathway as SQSTM1 and CALCOCO2/NDP52. May constitute a cellular target for adenovirus E3 14.7, an inhibitor of TNF-alpha functions, thereby affecting cell death.[UniProtKB/Swiss-Prot Function]