



Recombinant Human Optineurin (OPTN)

Product Code CSB-EP016363HU

Relevance 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. Negatively regulates the induction of IFNB in response to RNA virus infection. Plays a neuroprotective role in the eye and optic nerve. Probably part of the TNF-alpha signaling pathway that can shift the equilibrium toward induction of cell death. May act by regulating membrane trafficking and cellular morphogenesis via a complex that contains Rab8 and hungtingtin (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 domain 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.

Abbreviation Recombinant Human OPTN protein

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.

Uniprot No. Q96CV9

Storage Buffer Tris-based buffer,50% glycerol

Product Type Recombinant Proteins

Immunogen Species Homo sapiens (Human)

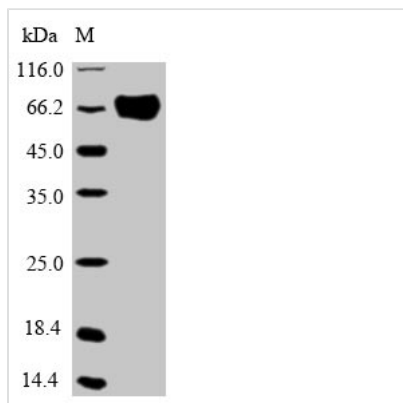
Purity Greater than 85% as determined by SDS-PAGE.

Sequence MSHQPLSCLTEKEDSPSESTGNGPPHLAHPNLDFTPEELLQQMKELLTENH
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 EKLKEELGKLGKRSERSSDPTDDSRPRAEAEQEKDQLRTQVVRLQAEKAD
 LLGIVSELQLKLNSSGSSSEDSFVEIRMAEGEAEGSVKEIKHSPGPTRTVSTGTA
 LSKYRSRSADGAKNYFEHEELTVSQQLLLCLREGNQKVERLEVALKEAKERVSD
 FEKKTNSRSEIETQTEGSTEKENDEEKGPETVGSEVEALNLQVTSLFKELQEA
 HTKLSEAELMKKRLQEKCQALERKNSAIPSELNEKQELVYTNKKLELQVESML
 SEIKMEQAKTEDEKSKLTVLQMTHNKLQEHNNALKTIEELTRKESEKVDRAVL
 KELSEKLELAEKALASKQLQMDQEMKQTIKQEEEDLETMTILRAQMEVYCSDFH
 AERAAREKIHEEKEQLALQLAVLLKENDAFEDGGRQSLMEMQSRHGARTSDS
 DQQAYLVQRGAEDRDWRQQRNIPIHSCPCKGCVLDPDIDLQIHVMDCII

Research Area Immunology



Source	E.coli
Target Names	OPTN
Protein Names	E3-14.7K-interacting protein (FIP-2) (Huntingtin yeast partner L) (Huntingtin-interacting protein 7) (HIP-7) (Huntingtin-interacting protein L) (NEMO-related protein) (Optic neuropathy-inducing protein) (Transcription factor IIIA-interacting protein) (TFI)
Expression Region	1-577aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	69.9 kDa
Protein Length	Full Length

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Shelf Life

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