

## Recombinant Human OPTN Protein (1-577 aa), His-tagged

Cat. No. OPTN-2052H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human OPTN Protein (1-577 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Immunology. Protein Description: Full Length.

**Species** Human

**Source** Yeast

**ProteinLength** 1-577 aa

**Description** 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 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 domain Salmonella enterica, and appears to function in the same

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	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.
<b>Form</b>	Tris-based buffer,50% glycerol
<b>Molecular Mass</b>	67.9 kDa
<b>AA Sequence</b>	<p>MSHQPLSCLTEKEDSPSESTGNGPPHLAHPNLDFTTPEELLQQMKELLTENHQLKE            AMKLNQAMKGRFEELSAWTEKQKEERQFFEIQSKEAKERLMALSHENEKLKEELG            KLKKGKSERSSDPTDDSRLPRAEAEQEKDQLRTQVVRLQAEKADLLGIVSELQLKLN            SSGSSEDSFVEIRMAEGEAEGSVKEIKHSPGPTRTVSTGTALSKYRSRSADGAKNY            FEHEELTVSQQLLLCLREGNQKVERLEVALKEAKERVSDFEKKTSNRSEIETQTEGST            EKENDEEKGPETVGSEVEALNLQVTSLFKELQEAHTKLSKAELMKKRLQEKCQALE            RKNSAIPSELNEKQELVYTNKKLELQVESMLSEIKMEQAKTEDEKSKLTVLQMTHNK            LLQEHNNALKTIEELTRKESEKVDRAVLKELSEKLELAEKALASKQLQMDQEMKQTIK            QEEDLETMTILRAQMEVYCSDFAERAAREKIHEEKEQLALQLAVLLKENDAFEDGG            RQSLMEMQSRHGARTSDSDQQAYLVQRGAEDRDWRQQRNIPIHSCPCKGCVLPDI            DTLQIHVMDCII</p>
<b>Purity</b>	> 90% as determined by SDS-PAGE.
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
<b>Storage</b>	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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
<b>Concentration</b>	A hardcopy of COA with reconstitution instruction is sent along with the products.

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## GENE INFORMATION

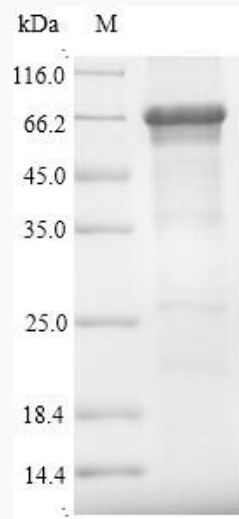
**Gene Name** OPTN optineurin [ Homo sapiens ]

**Official Symbol** OPTN

**Synonyms** OPTN; optineurin;

**Gene ID** 117580

**UniProt ID** Q96CV9



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

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