

Datasheet for ABIN7554830

OPTN Protein (AA 1-577) (His tag)



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Overview

Quantity:	1 mg
Target:	OPTN
Protein Characteristics:	AA 1-577
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OPTN protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat OPTN Protein expressed in mammalian cells.
Sequence:	<p>MSHQPLSCLT EKEDSPSEST GNGPPHLAHP NLDFTTPEEL LQQMKELLTE NHQLKEAMKL NNQAMKGRFE ELSAWTEKQK EERQFFFIQS KEAKERLMAL SHENEKLKEE LGKLKGKSER SSEDPTDDSR LPRAEAQEQK DQLRTQVVRL QAEKADLLGI VSELQLKLNS SGSSSEDSFVE IRMAEGEAEG SVKEIKHSPG PTRTVSTGTA LSKYRSRSAD GAKNYFEHEE LTVSQQLLCL REGNQKVERL EVALKEAKER VSDFEKTSN RSEIETQTEG STEKENDEEK GPETVGSEVE ALNLQVTSFL KELQEAHTKL SEAELMKKRL QEKCQALERK NSAIPSELNE KQELVYTNNK LELQVESMLS EIKMEQAKTE DEKSKLTVLQ MTHNKLLQEH NNALKTIEEL TRKESEKVDR AVLKELSEKL ELAEKALASK QLQMDQEMKQT IAKQEEDLET MTILRAQMEV YCSDFHAERA AREKIHEEKE QLALQLAVLL KENDAFEDGG RQSLMEMQSR HGARTSDSDQ QAYLVQRGAE DRDWRQQRNI PIHSCPCKGE VLPDIDTLQI HVMDCI</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity</p>

of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	OPTN
Alternative Name:	OPTN (OPTN Products)
Background:	<p>Optineurin (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) (TFIIIA-IntP),FUNCTION: Plays an important role in the maintenance of the Golgi complex, in membrane trafficking, in exocytosis, through its interaction with myosin VI and Rab8 (PubMed:27534431). Links myosin VI to the Golgi complex and plays an important role in Golgi ribbon formation (PubMed:27534431). Plays a role in the activation of innate immune response during viral infection. Mechanistically, recruits TBK1 at the Golgi apparatus, promoting its transphosphorylation after RLR or TLR3 stimulation (PubMed:27538435). In turn, activated TBK1 phosphorylates its downstream partner IRF3 to produce IFN-beta/IFNB1. Plays a neuroprotective role in the eye and optic nerve. May act by regulating membrane trafficking and</p>

Target Details

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 that of transferrin receptor (TFRC/TfR), regulates Rab8 recruitment to tubules emanating from the endocytic recycling compartment (PubMed:22854040). 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. {ECO:0000269|PubMed:11834836, ECO:0000269|PubMed:15837803, ECO:0000269|PubMed:20085643, ECO:0000269|PubMed:20174559, ECO:0000269|PubMed:21617041, ECO:0000269|PubMed:22854040, ECO:0000269|PubMed:27534431, ECO:0000269|PubMed:27538435}., FUNCTION: (Microbial infection) May constitute a cellular target for various viruses, such as adenovirus E3 14.7 or Bluetongue virus, to inhibit innate immune response (PubMed:9488477, PubMed:27538435). During RNA virus infection, such as that of Sendai virus, negatively regulates the induction of IFNB1 (PubMed:20174559). {ECO:0000269|PubMed:20174559, ECO:0000269|PubMed:27538435, ECO:0000269|PubMed:9488477}.

Molecular Weight:	65.9 kDa
UniProt:	Q96CV9
Pathways:	M Phase

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

Handling

Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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