

Recombinant Human Optineurin protein (His tag) ab235021

画像数 3

製品の詳細

製品名	Recombinant Human Optineurin protein (His tag)
精製度	>= 85 % SDS-PAGE. Affinity purified.
発現系	Baculovirus infected insect cells
アクセッション番号	<u>Q96CV9-1</u>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	MSHQPLSCLTEKEDSPSESTGNGPPHLAHPNLDFTPEELLQ QMKELLTE NHQLKEAMKLNQAMKGRFEELSAWTEKQKEERQFFEIQSKE AKERLMAL SHENEKLKEELGKLGKKSERSSEDPDTSRLPRAEAEQEKDQ LRTQVVRL QAEKADLLGIVSELQLKLNSSGSSSEDSFVEIRMAEGEAEGSV KEIKHSPG PTRTVSTGTALSKYRSRSADGAKNYFEHEELTVSLLLLCLRE GNQKVERL EVALKEAKERVSDFEKKTSNRSEIETQTEGSTEKENDEEKGP ETVGSEVE ALNLQVTSLFKELQEAHTKLSKAELMKKRLQEKCALERKNS AIPSELNE KQELVYTNKKLELQVESMLSEIKMEQAKTEDEKSKLTVLQMT HNKLLQEH NNALKTIEELTRKESEKVDRAVLKELSEKLELAEKALASKQL QMDEMKT IAKQEEDLETMTILRAQMEVYCSDFHAERAAREKIHEEKEQL ALQLAVLL KENDAFEDGGRQSLMEMQSRHGARTSDSDQAYLVQRGAEDR DWRQQRNI PIHSCP KCGEVL PDIDTLQIHVMDCII
予測される分子量	68 kDa including tags
領域	1 to 577

タグ His tag C-Terminus
配列の追加情報 C-terminal 9xHis-tagged.

特性

Our **Abpromise guarantee** covers the use of **ab235021** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション SDS-PAGE
Mass Spectrometry

製品の状態 Liquid

前処理および保存

保存方法および安定性 Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
pH: 7.20
Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)

関連情報

機能 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). May constitute a cellular target for adenovirus E3 14.7, an inhibitor of TNF-alpha functions, thereby affecting cell death.

組織特異性 Present in aqueous humor of the eye (at protein level). Highly expressed in trabecular meshwork. Expressed nonpigmented ciliary epithelium, retina, brain, adrenal cortex, fetus, lymphocyte, fibroblast, skeletal muscle, heart, liver, brain and placenta.

関連疾患 Defects in OPTN are the cause of primary open angle glaucoma type 1E (GLC1E) [MIM:137760]. Primary open angle glaucoma (POAG) is characterized by a specific pattern of optic nerve and visual field defects. The angle of the anterior chamber of the eye is open, and usually the intraocular pressure is increased. The disease is asymptomatic until the late stages, by which time significant and irreversible optic nerve damage has already taken place.
Defects in OPTN are a cause of susceptibility to normal pressure glaucoma (NPG) [MIM:606657].
Defects in OPTN are the cause of amyotrophic lateral sclerosis type 12 (ALS12) [MIM:613435]. It is a neurodegenerative disorder affecting upper motor neurons in the brain and lower motor neurons in the brain stem and spinal cord, resulting in fatal paralysis. Sensory abnormalities are absent. Death usually occurs within 2 to 5 years. The etiology of amyotrophic lateral sclerosis is likely to be multifactorial, involving both genetic and environmental factors. The disease is inherited in 5-10% of the cases.

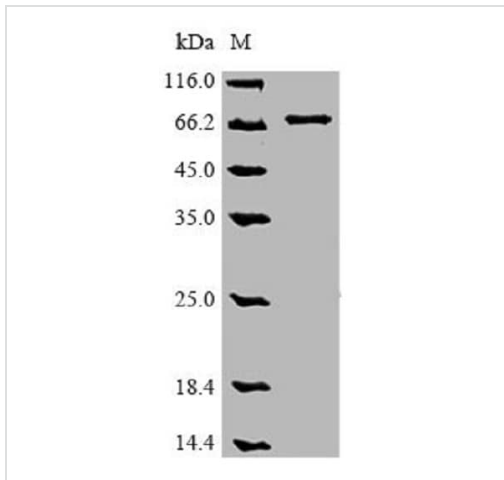
ドメイン Ubiquitin-binding motif (UBAN) is essential for its inhibitory function, subcellular localization and interaction with TBK1.

翻訳後修飾 Phosphorylated. Phosphorylation is induced by phorbol esters and decreases its half-time.

細胞内局在 Cytoplasm > perinuclear region. Golgi apparatus. Golgi apparatus > trans-Golgi network. Found

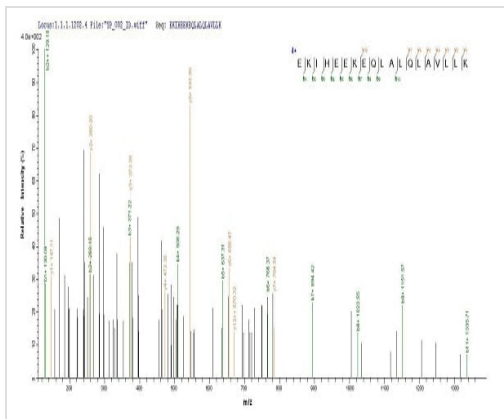
in the perinuclear region and associates with the Golgi apparatus. Colocalizes with MYO6 and RAB8 at the Golgi complex and in vesicular structures close to the plasma membrane.

画像



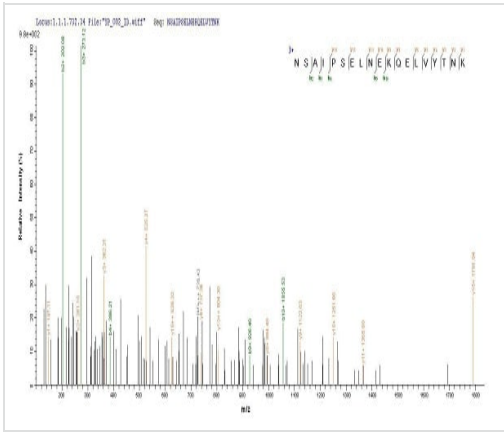
SDS-PAGE - Recombinant Human Optineurin protein (His tag) (ab235021)

ab235021 analyzed by (Tris-Glycine gel) discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Mass Spectrometry - Recombinant Human Optineurin protein (His tag) (ab235021)

Based on the SEQUEST from database of Baculovirus host and target protein, the LC-MS/MS Analysis result of ab235021 could indicate that this peptide derived from Baculovirus-expressed Homo sapiens(Human) OPTN.



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