

## ARG56471 anti-Optineurin antibody

Package: 250 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes Optineurin
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Optineurin
Species	Human
Immunogen	Synthetic peptide around the C-terminus of Human Optineurin.
Conjugation	Un-conjugated
Alternate Names	GLC1E; Transcription factor IIIA-interacting protein; E3-14.7K-interacting protein; Optineurin; NEMO-related protein; Huntingtin-interacting protein 7; TFIIIA-INTP; Optic neuropathy-inducing protein; HYPL; Huntingtin-interacting protein L; FIP2; ALS12; Huntingtin yeast partner L; HIP7; NRP; FIP-2; HIP-7; TFIIIA-IntP

### Application Instructions

Application table	Application	Dilution
	WB	1:200
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

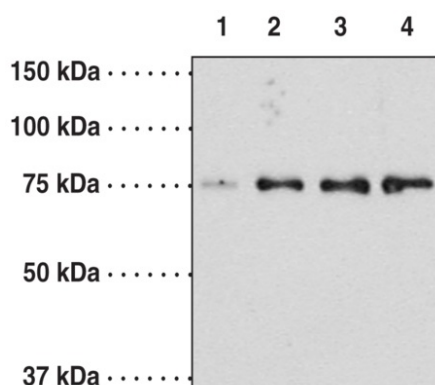
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	TBS (pH 7.4), 0.02% Sodium azide, 50% Glycerol and 0.1% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.1% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Gene Symbol	OPTN
Gene Full Name	optineurin
Background	This gene encodes the coiled-coil containing protein optineurin. Optineurin may play a role in normal-tension glaucoma and adult-onset primary open angle glaucoma. Optineurin interacts with adenovirus E3-14.7K protein and may utilize tumor necrosis factor-alpha or Fas-ligand pathways to mediate apoptosis, inflammation or vasoconstriction. Optineurin may also function in cellular morphogenesis and membrane trafficking, vesicle trafficking, and transcription activation through its interactions with the RAB8, huntingtin, and transcription factor IIIA proteins. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]
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. 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 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. [UniProt] 66 kDa
Calculated Mw	66 kDa
PTM	Phosphorylated by TBK1, leading to restrict bacterial proliferation in case of infection. Phosphorylation is induced by phorbol esters and decreases its half-time.

## Images



ARG56471 anti-Optineurin antibody WB image

Western blot: 1) 7.5 µg of BJ fibroblast lysates, 2) 20 µg of HEK293 cell lysates, 3) 25 µg of HEK293 cell lysates, and 4) 30 µg of HEK293 cell clysates stained with ARG56471 anti-Optineurin antibody.