



## Anti-Optineurin Antibody

**Alternative Names:** ALS12, FIP2, FIP-2, GLC1E, HIP7, HYPL, Huntingtin yeast partner L, Huntingtin-interacting protein 7, NRP, TFIIIA-INTP, Transcription factor IIIA-interacting protein, E3-14.7K-interacting protein, NEMO-related protein, Optic neuropathy-inducing protein, OPTN

**Catalogue Number:** AB18-10058-50ug

**Size:** 50 µg

### Background Information

Optineurin (OPTN) is an autophagy receptor that interacts with numerous proteins. It is involved in regulating many cellular functions, including vesicular trafficking from the Golgi to plasma membrane, endocytic trafficking, and signaling leading to NF-kappa-B (see 164011) activation [1]

Optineurin has been shown to interact with huntingtin [2], transcription factor IIIA [3], and RAB8 [4] and may therefore function in cellular morphogenesis and membrane trafficking, vesicle trafficking, and transcription activation. Alternative splicing of the gene results in multiple transcript variants encoding the same protein. Optineurin mutations are associated with Glaucoma and Amyotrophic lateral sclerosis (ALS).

### Product Information

<b>Antibody Type:</b>	Polyclonal	<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG	<b>Species Reactivity:</b>	Human, Mouse
<b>Immunogen:</b>	Full length recombinant human OPTN		
<b>Format:</b>	50 µg in 50 µl PBS containing 0.02% sodium azide.		
<b>Storage Conditions:</b>	6 months: 4°C. Long-term storage: -20°C. Avoid multiple freeze and thaw cycles.		
<b>Applications:</b>	WB WB 1:500-2000.		

### Additional Information

<b>Subcellular location:</b>	Cytoplasm, Cytoplasmic vesicle, Golgi apparatus, Recycling endosome, autophagosome, perinuclear region, trans-Golgi network	<b>MW:</b>	66kDa (Intended as a general guide and does not allow for all isoforms and species variations)
<b>Gene ID</b>	10133	<b>Uniprot ID:</b>	Q96CV9



## References

[1] Vaibhava, V., Nagabhushana, A., Chalasani, M. L. S., Sudhakar, C., Kumari, A., Swarup, G. Optineurin mediates a negative regulation of Rab8 by the GTPase-activating protein TBC1D17. *J. Cell Sci.* 125: 5026-5039, 2012. [2] Faber, P. W., Barnes, G. T., Srinidhi, J., Chen, J., Gusella, J. F., MacDonald, M. E. Huntingtin interacts with a family of WW domain proteins. *Hum. Molec. Genet.* 7: 1463-1474, 1998. [3] Moreland, R. J., Dresser, M. E., Rodgers, J. S., Roe, B. A., Conaway, J. W., Conaway, R. C., Hanas, J. S. Identification of a transcription factor IIIA-interacting protein. *Nucleic Acids Res.* 28: 1986-1993, 2000. [4] Hattula, K., Peranen, J. FIP-2, a coiled-coil protein, links huntingtin to Rab8 and modulates cellular morphogenesis. *Curr. Biol.* 10: 1603-1606, 2000.