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

Catalogue Number: AB18-10058

Size: 100ug

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

Antibody Type:	Polyclonal	**Host:**	Rabbit
Isotype:	IgG	**Species Reactivity:**	Human Mouse
Immunogen:	Recombinant human OPTN		
Format:	100 µg in 100 µl PBS containing 0.02% sodium azide.		
Storage Conditions:	6 months: 4˚C. Long-term storage: -20˚C. Avoid multiple freeze and thaw cycles.		
Applications:	WB WB 1:500-2000.		

Additional Information

Subcellular location:	Cytoplasm, Cytoplasmic vesicle, Golgi apparatus, Recycling endosome, autophagosome, perinuclear region, trans-Golgi network	**MW:**	66kDa
Gene ID	10133	**Uniprot ID:**	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.