
Product Name: KD-Validated Optineurin Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00307

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 65.9kDa

Antigen Information

Gene Name	OPTN OPTN; Optineurin; FIP-2; FIP2; HYPL; HIP7; NRP; TFIIIA-INTP; GLC1E; Transcription Factor IIIA-Interacting Protein; Optic Neuropathy-Inducing Protein; Huntingtin-Interacting Protein 7; Huntingtin-Interacting Protein L; E3-14.7K-Interacting Protein; Huntingtin Yeast Partner L;
Alternative Names	HIP-7; Tumor Necrosis Factor Alpha-Inducible Cellular Protein Containing Leucine Zipper Domains; Transcription Factor IIIA-Interacting Protein; Glaucoma 1, Open Angle, E (Adult-Onset); Huntingtin Interacting Protein L; Nemo-Related Protein; NEMO-Related Protein; TFIIIA-IntP; ALS12
Gene ID	10133.0
SwissProt ID	Q96CV9
Immunogen	Recombinant protein of human Optineurin

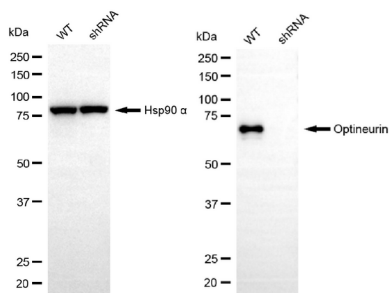
Background

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]

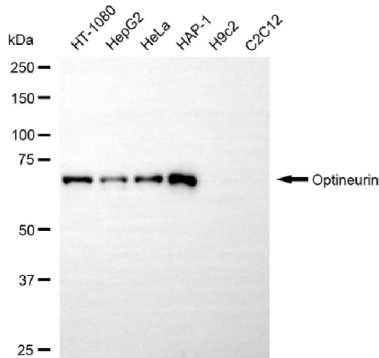
Research Area

Immunology,Signal Transduction,Neuroscience

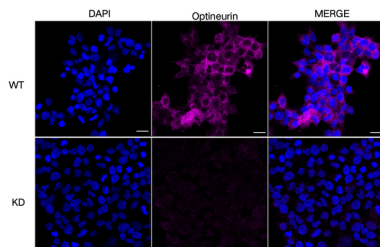
Image Data



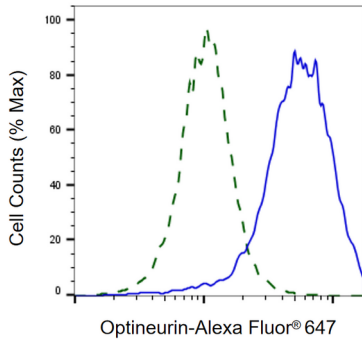
Western blotting analysis using optineurin antibody (KVA00307). Optineurin expression in wild-type (WT) and optineurin (OPTN) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with optineurin antibody (KVA00307, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



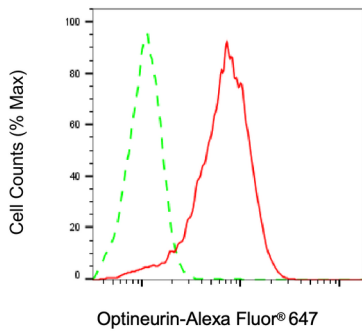
Western blotting analysis using optineurin antibody (KVA00307). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with optineurin antibody (KVA00307, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using Optineurin antibody (KVA00307, 1:1,000), Top panel: wild-type (WT); Bottom panel: Optineurin shRNA knockdown (KD). Nuclei were stained blue with DAPI; Optineurin was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Validation of Optineurin knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Optineurin antibody (KVA00307, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Optineurin expression in HAP-1 cells using Optineurin antibody (KVA00307, 1:2,000). Green, isotype control; red, Optineurin.