Anti-Optineurin Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013188

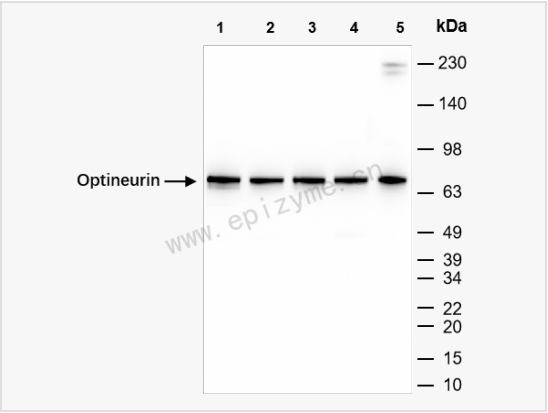
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	64M22K82
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human Optineurin
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Optineurin Rabbit mAb [64M22K82] is for research use only and not for use in diagnostic or therapeutic procedures.

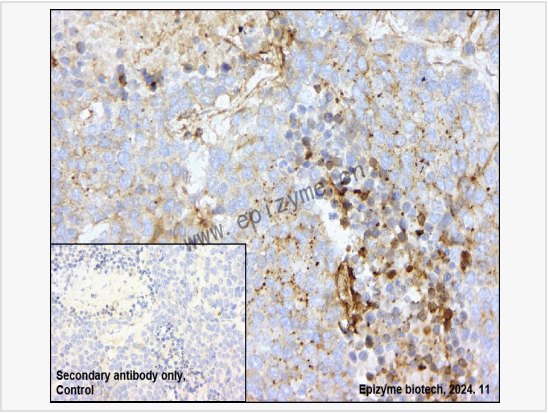
Protein Information

Synonyms	14.7K interacting protein, Ag9 C5, ALS12, E3 14.7K interacting protein, E3-14.7K-interacting protein, FIP 2, FIP-2, FIP2, Glaucoma 1 open angle E (adult onset), Glaucoma 1 open angle E, GLC1E, HIP 7, HIP-7, HIP7, Huntingtin interacting protein 7, Huntingtin interacting protein HYPL, Huntingtin interacting protein L, Huntingtin yeast partner L, Huntingtin-interacting protein 7, Huntingtin-interacting protein L, HYPL, Injury inducible protein I 55, NEMO related protein, NEMO-related protein, NRP, Optic neuropathy inducing protein, Optic neuropathy-inducing protein, Optineurin, OPTN, OPTN_HUMAN, TFIIIA IntP, TFIIIA-IntP, Transcription factor IIIA interacting protein, Transcription factor IIIA-interacting protein, Tumor necrosis factor alpha inducible cellular protein containing leucine zipper domains.
Calculated MW	Calculated MW: 66 kDa; Observed MW: 75 kDa
Uniprot ID	Q96CV9
Gene ID	10133
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]
Cellular Location	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

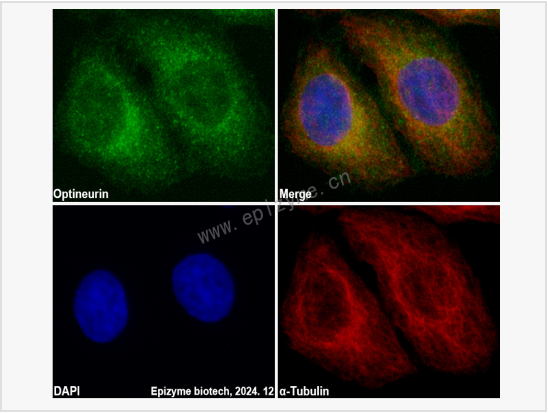
Validation Images



Western Blot - Anti-Optineurin Rabbit mAb [64M22K82]
All lanes: R013188 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 66 kDa
Observed band size: 75 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Optineurin Rabbit mAb [64M22K82]
Sample: Paraformaldehyde-fixed, paraffin embedded human lung cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013188 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-Optineurin Rabbit mAb [64M22K82]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013188 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).