

For Research Use Only

OPTN/Optineurin Polyclonal antibody, PBS Only

Catalog Number: 10837-1-PBS

Featured Product



Basic Information

Catalog Number:

10837-1-PBS

Concentration:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1272

GenBank Accession Number:

BC013876

GeneID (NCBI):

10133

UNIPROT ID:

Q96CV9

Full Name:

optineurin

Calculated MW:

66 kDa

Observed MW:

66-70 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, FC (Intra), IP, Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

OPTN, also named as FIP2, GLC1E, HIP7, HYPL and NRP, plays a neuroprotective role in the eye and optic nerve. It is probably part of the TNF- α signaling pathway that can shift the equilibrium toward induction of cell death. OPTN may act by regulating membrane trafficking and cellular morphogenesis via a complex that contains Rab8 and hungtingin (HD). OPTN may constitute a cellular target for adenovirus E3 14.7, an inhibitor of TNF- α functions, thereby affecting cell death. Defects in OPTN are a cause of susceptibility to normal pressure glaucoma (NPG). OPTN mutated in adult-onset primary open angle glaucoma. It supports the protective role of OPTN in the trabecular meshwork. OPTN has 3 isoforms with MW 66,65 and 60 kDa (refer to UniProt). Catalog# 10837-1-AP recognises 66 and 70-74 kDa band, and the additional 70-74 kDa band due to phosphorylation.

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

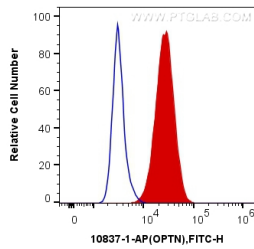
T: 4006900926

E: Proteintech-CN@ptglab.com

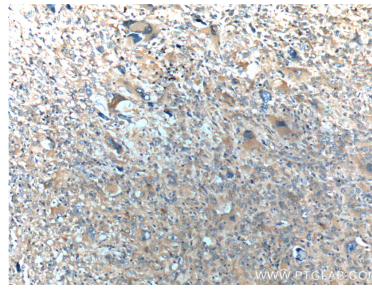
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

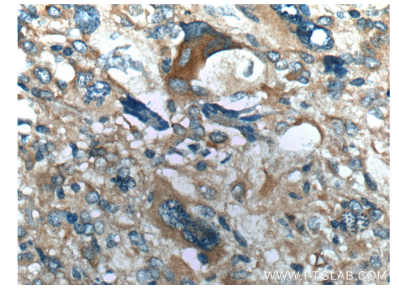
Selected Validation Data



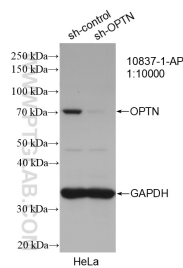
1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human OPTN (10837-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 10837-1-PBS in a different storage buffer formulation.



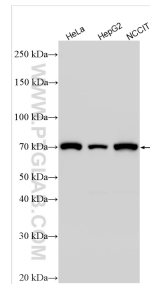
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 10837-1-AP (OPTN Antibody) at dilution of 1:200 (under 10x lens). This data was developed using the same antibody clone with 10837-1-PBS in a different storage buffer formulation.



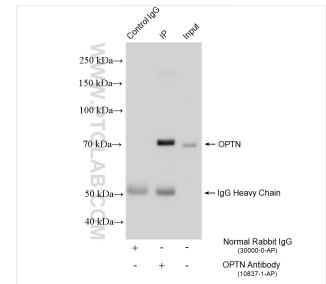
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 10837-1-AP (OPTN Antibody) at dilution of 1:200 (under 40x lens). This data was developed using the same antibody clone with 10837-1-PBS in a different storage buffer formulation.



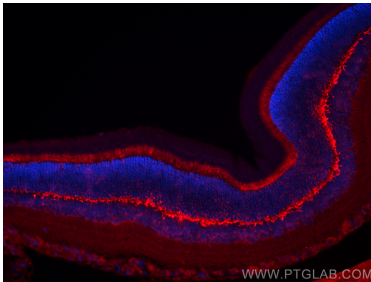
WB result of OPTN antibody (10837-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-OPTN transfected HeLa cells. This data was developed using the same antibody clone with 10837-1-PBS in a different storage buffer formulation.



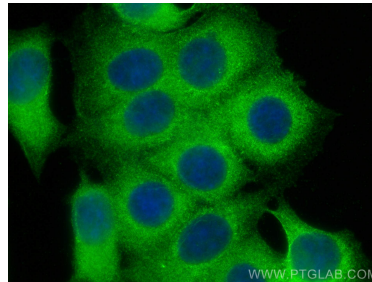
Various lysates were subjected to SDS PAGE followed by western blot with 10837-1-AP (OPTN/Optineurin antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 10837-1-PBS in a different storage buffer formulation.



IP result of anti-OPTN/Optineurin (IP:10837-1-AP, 4ug; Detection:10837-1-AP 1:10000) with HeLa cells lysate 1400 ug. This data was developed using the same antibody clone with 10837-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Acetone) fixed paraffin-embedded rat eye tissue using OPTN antibody (10837-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 10837-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using OPTN antibody (10837-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). This data was developed using the same antibody clone with 10837-1-PBS in a different storage buffer formulation.