

For Research Use Only

# OPTN/Optineurin Recombinant antibody, PBS Only

Catalog Number: 83634-5-PBS



## Basic Information

Catalog Number:

83634-5-PBS

Size:

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:

Protein A purification

CloneNo.:

240636A7

## Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Species Specificity:

human

## 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- $\alpha$  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 huntingtin (HD). OPTN may constitute a cellular target for adenovirus E3 14.7, an inhibitor of TNF- $\alpha$  functions, thereby affecting cell death. Defects in OPTN cause 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.

## 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

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

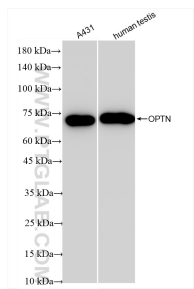
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

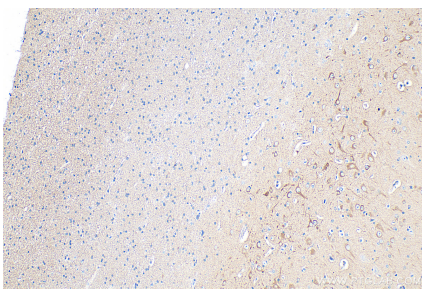
W: [ptgcn.com](http://ptgcn.com)

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

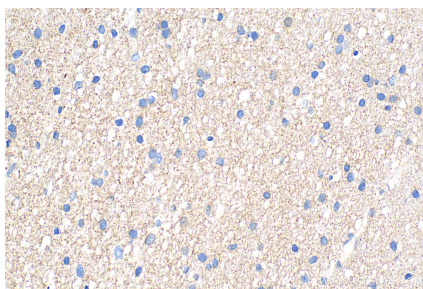
## Selected Validation Data



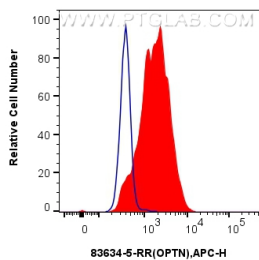
Various lysates were subjected to SDS PAGE followed by western blot with 83634-5-RR (OPTN antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83634-5-PBS in a different storage buffer formulation.



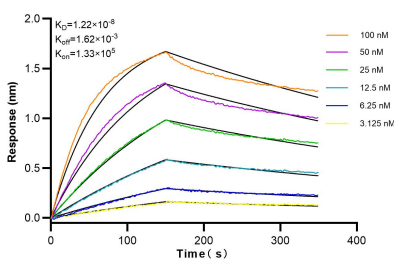
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 83634-5-RR (OPTN antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83634-5-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 83634-5-RR (OPTN antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83634-5-PBS in a different storage buffer formulation.



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug OPTN Recombinant antibody (83634-5-RR, Clone:240636A7) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). 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 83634-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83634-5-RR against Human OPTN were performed. The affinity constant is 12.2 nM.