

For Research Use Only

OPTN Recombinant antibody, PBS Only

Catalog Number: 83634-5-PBS



Basic Information

Catalog Number: 83634-5-PBS	GenBank Accession Number: BC013876	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 10133	CloneNo.: 240636A7
Source: Rabbit	UNIPROT ID: Q96CV9	
Isotype: IgG	Full Name: optineurin	
Immunogen Catalog Number: AG1272	Calculated MW: 66 kDa	
	Observed MW: 66-70 kDa	

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- 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 huntingtin (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 cause primary open angle glaucoma type 1E (GLC1E). 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:

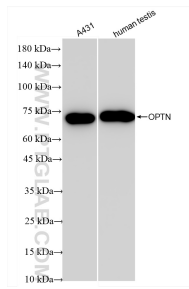
T: 4006900926

E: Proteintech-CN@ptglab.com

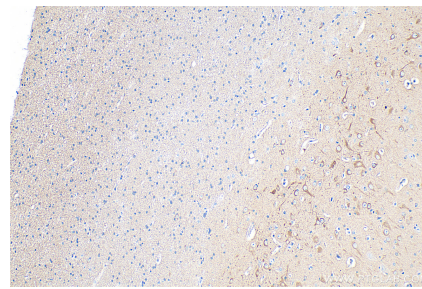
W: ptgcn.com

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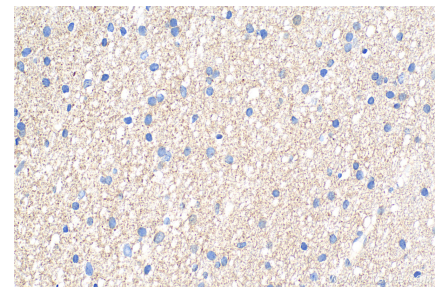
Selected Validation Data



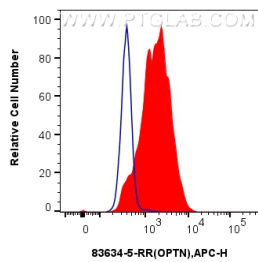
Various lysates were subjected to SDS PAGE followed by western blot with 83634-5-RR (OPTN antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83634-5-PBS in a different storage buffer formulation.



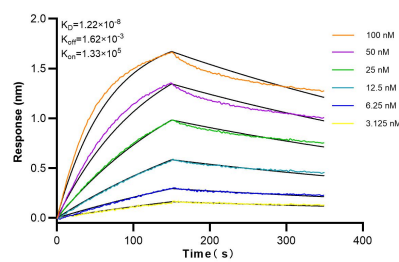
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 83634-5-RR (OPTN antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83634-5-PBS in a different storage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



1×10^6 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.