

For Research Use Only

OPTN/Optineurin 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: 100ug, Concentration: 1 mg/ml by Nanodrop;	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-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.

Storage Buffer:
PBS Only

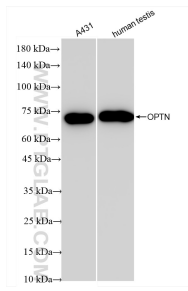
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

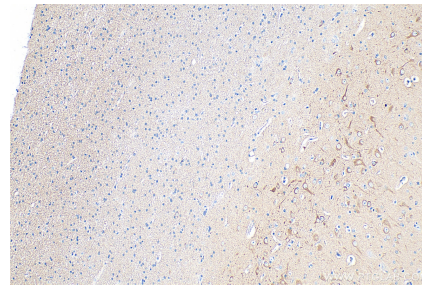
E: proteintech@ptglab.com
W: ptglab.com

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

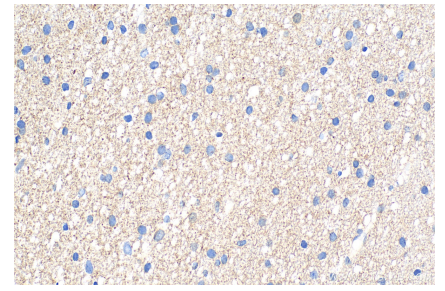
Selected Validation Data



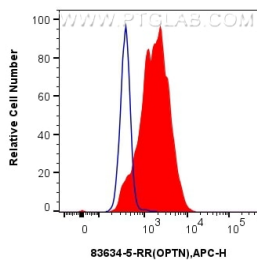
Various lysates were subjected to SDS PAGE followed by western blot with 83634-5-RR (OPTN antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83634-5-PBS in a different storage buffer formulation.



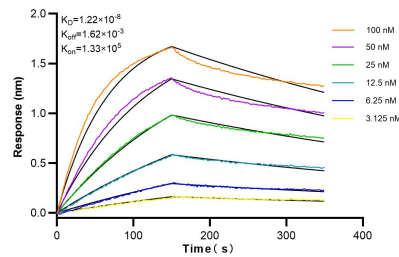
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 83634-5-RR (OPTN antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83634-5-PBS in a different storage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



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.