

For Research Use Only

# OPTN Monoclonal antibody

Catalog Number: 60293-1-Ig

Featured Product

2 Publications



## Basic Information

<b>Catalog Number:</b> 60293-1-Ig	<b>GenBank Accession Number:</b> BC013876	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2700 µg/ml by Nanodrop and 1700 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10133	<b>CloneNo.:</b> 6C1H4
<b>Source:</b> Mouse	<b>Full Name:</b> optineurin	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500 IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 66 kDa	
<b>Immunogen Catalog Number:</b> AG1272	<b>Observed MW:</b> 70-74 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : human heart tissue, IHC : human pancreas cancer tissue, human brain tissue IF : HepG2 cells,
<b>Cited Applications:</b> IF, WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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 are the cause of primary open angle glaucoma type 1E (GLC1E). 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Deguan Lv	35659339	Dev Cell	WB,IF
Qian Xue	36622894	Autophagy	WB

## Storage

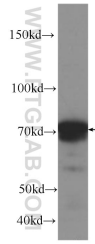
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

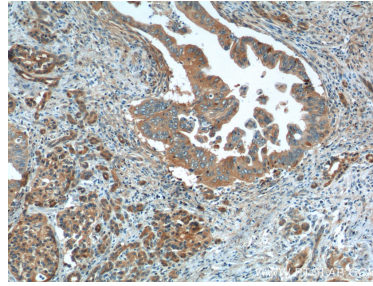
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

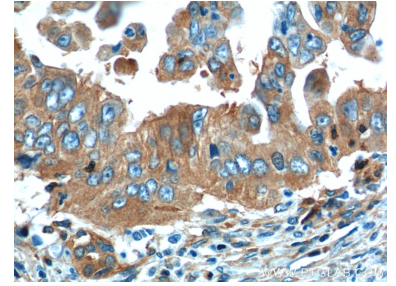
## Selected Validation Data



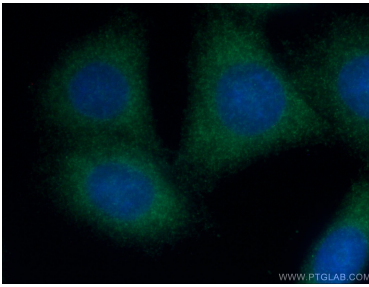
human heart tissue were subjected to SDS PAGE followed by western blot with 60293-1-Ig (OPTN Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 60293-1-Ig (OPTN Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 60293-1-Ig (OPTN Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 60293-1-Ig (OPTN antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).