

Biotin-conjugated OPTN Monoclonal antibody

Catalog Number: **Biotin-60293**

Basic Information

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|--|---|--|
| Catalog Number: Biotin-60293 | GenBank Accession Number: BC013876 | Purification Method: Protein G purification |
| Size: 1000 µg/ml | GeneID (NCBI): 10133 | CloneNo.: 6C1H4 |
| Source: Mouse | UNIPROT ID: Q96CV9 | Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 |
| Isotype: IgG1 | Full Name: optineurin | |
| Immunogen Catalog Number: AG1272 | Calculated MW: 66 kDa Observed MW: 70-74 kDa | |

Applications

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| Tested Applications: IHC, WB | Positive Controls: |
| Species Specificity: human | WB : human brain, IHC : human pancreas cancer tissue, |

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. This antibody is conjugated with Biotin.

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

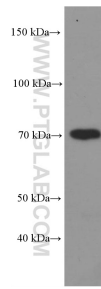
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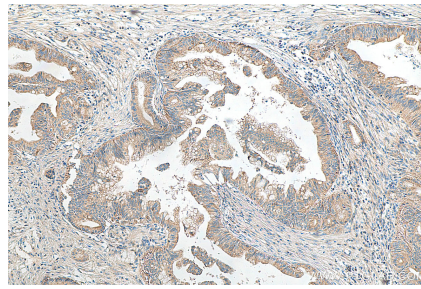
W: ptgcn.com

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Selected Validation Data



Fetal human brain was subjected to SDS-PAGE followed by western blot with Biotin-60293 (biotin labeled OPTN monoclonal antibody) at dilution of 1:1000. Avidin-HRP was used instead of secondary antibody.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using Biotin-60293 (OPTN antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).