

For Research Use Only

Biotin-conjugated OPTN Monoclonal antibody



Catalog Number: Biotin-60293

Basic Information

Catalog Number:

Biotin-60293

GenBank Accession Number:

BC013876

Purification Method:

Protein G purification

Size:

100UL, Concentration: 1100 µg/ml by Bradford method using BSA as the standard;

GeneID (NCBI):

10133

Recommended Dilutions:

WB 1:500-1:2000
IHC 1:50-1:500

Source:

Mouse

Full Name:

optineurin

Calculated MW:

66 kDa

Isotype:

IgG1

Immunogen Catalog Number:

AG1272

Applications

Tested Applications:

IHC, WB, ELISA

Positive Controls:

WB: human brain,

Species Specificity:

human

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(10mM), with 50% glycerol, without sodium azide.

Aliquoting is unnecessary for -20°C storage

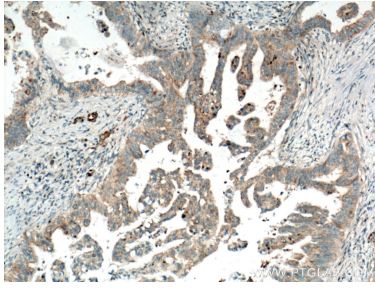
For technical support and original validation data for this product please contact:

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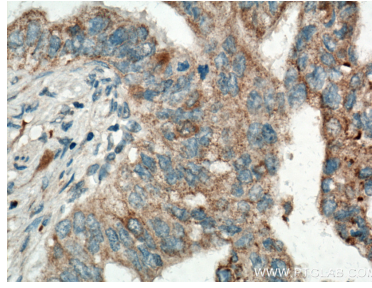
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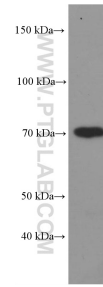
Selected Validation Data



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).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using Biotin-60293 (OPTN antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.