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Datasheet for ABIN2781170
anti-OPTN antibody (N-Term)

2 Images

Overview

Quantity:	100 µL
Target:	OPTN
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Dog, Guinea Pig, Cow, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OPTN antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human OPTN
Sequence:	SHQPLSCLTE KEDSPSESTG NGPPHLAHPN LDTFTPEELL QQMKELLTEN
Predicted Reactivity:	Cow: 86%, Dog: 83%, Guinea Pig: 79%, Horse: 86%, Human: 100%, Rat: 79%
Characteristics:	This is a rabbit polyclonal antibody against OPTN. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	OPTN
Alternative Name:	OPTN (OPTN Products)

Target Details

Background: OPTN is the coiled-coil containing protein optineurin. Optineurin may play a role in normal-tension glaucoma and adult-onset primary open angle glaucoma. Optineurin interacts with adenovirus E3-14.7K protein and may utilize tumor necrosis factor-alpha or Fas-ligand pathways to mediate apoptosis, inflammation or vasoconstriction. Optineurin may also function in cellular morphogenesis and membrane trafficking, vesicle trafficking, and transcription activation through its interactions with the RAB8, huntingtin, and transcription factor IIIA proteins. This gene encodes the coiled-coil containing protein optineurin. Optineurin may play a role in normal-tension glaucoma and adult-onset primary open angle glaucoma. Optineurin interacts with adenovirus E3-14.7K protein and may utilize tumor necrosis factor-alpha or Fas-ligand pathways to mediate apoptosis, inflammation or vasoconstriction. Optineurin may also function in cellular morphogenesis and membrane trafficking, vesicle trafficking, and transcription activation through its interactions with the RAB8, huntingtin, and transcription factor IIIA proteins. Alternative splicing results in multiple transcript variants encoding the same protein.

Alias Symbols: FIP2, GLC1E, HIP7, HYPL, NRP, TFIIIA-INTP, ALS12

Protein Interaction Partner: RAB10, TNIP1, OPTN, DAZAP2, CDC23, UBC, PARK2, ZNF670, ZNF329, TBC1D15, ZNF398, CCDC53, MAP1LC3A, TBC1D17, HACE1, RAB25, RAB11B, SQSTM1, RAB11A, Rab8a, Tfr, BRE, FAM178A, UQCRQ, GNAS, RAB12, EPS15, RAB14, MAP1LC3B, PIAS4, RNF11, RIPK1, TNFRSF1A, TNF, HTT

Protein Size: 577

Molecular Weight: 66 kDa

Gene ID: 10133

NCBI Accession: [NM_001008213](#), [NP_001008214](#)

UniProt: [Q96CV9](#)

Pathways: [M Phase](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

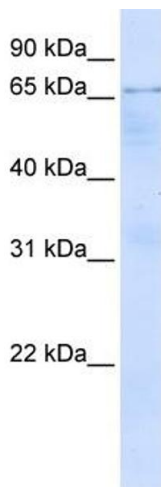
Comment: Antigen size: 577 AA

Restrictions: For Research Use only

Handling

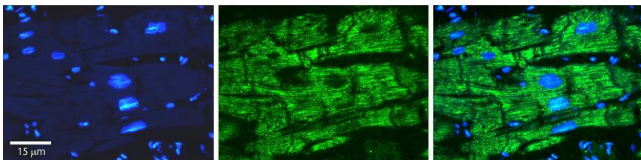
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-OPTN Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: Transfected 293T



Immunohistochemistry

Image 2. Rabbit Anti-OPTN Antibody Formalin Fixed Paraffin Embedded Tissue: Human heart Tissue Observed Staining: Cytoplasmic Primary Antibody Concentration: N/A Other Working Concentrations: 1:600 Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec