For Research Use Only

PNPT1 Polyclonal antibody

Catalog Number: 14487-1-AP

Featured Product

10 Publications



Basic Information

Catalog Number: GenBank Accession Number: 14487-1-AP BC053660 Concentration: GeneID (NCBI): 87178 650 μg/ml Source: **UNIPROT ID:** Q8TCS8 Rabbit

Isotype: Full Name: polyribonucleotide nucleotidyltransferase 1 Immunogen Catalog Number:

AG5888 Calculated MW:

86 kDa Observed MW: 86 kDa

Purification Method:

Antigen affinity purification Recommended Dilutions:

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500 IF/ICC 1:50-1:500

WB 1:2000-1:10000

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications: WB, IHC, IF, IP Species Specificity: human, mouse, rat

Cited Species: human, mouse

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

Positive Controls:

WB: HEK-293 cells, human brain tissue, HeLa cells,

Jurkat cells

IP: mouse brain tissue.

IHC: human gliomas tissue, human skin tissue, human

spleen tissue, human lung tissue

IF/ICC: HeLa cells,

Background Information

PNPT1 (polynucleotide phosphorylase1; also known as PNPASE) localizes in the mitochondrial intermembrane and regulates RNA import into mitochondria (20691904). PNPT1 is also involved in mRNA degradation. As a type I IFNinducible gene, PNPT1 plays an essential role in mediating IFN-mediated inflammatory processes (17804700). Recently mutation in PNPT1 has been reported to cause hereditary hearing loss (23084290). This antibody detected the endogenous PNPT1 around 80 kDa in mouse brain.

Notable Publications

Author	Pubmed ID	Journal	Application
Mrinmoyee Majumder	31940341	PLoS Genet	WB
Tina Pangršič	25691754	Proc Natl Acad Sci U S A	IF
Hongchao Liu	33634111	Front Cell Dev Biol	IF

Storage

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

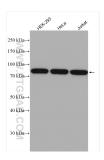
Aliquoting is unnecessary for -20°C storage

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

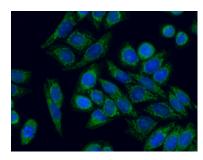
T: 4006900926 E: Proteintech-CN@ptglab.com

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

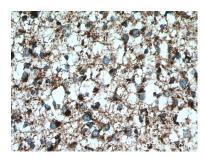
Selected Validation Data



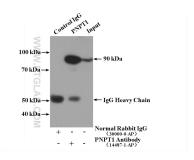
Various lysates were subjected to SDS PAGE followed by western blot with 14487-1-AP (PNPT1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 14487-1-AP (PNPT1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 14487-1-AP (PNPT1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PNPT1 (IP:14487-1-AP, 4ug; Detection:14487-1-AP 1:1000) with mouse brain tissue lysate 4000ug.