

PNPT1 Monoclonal antibody

Catalog Number: 68309-1-Ig

Basic Information

Catalog Number:

68309-1-Ig

Size:

500 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG6290

GenBank Accession Number:

BC053660

GeneID (NCBI):

87178

UNIPROT ID:

Q8TCS8

Full Name:

polyribonucleotide
nucleotidyltransferase 1

Calculated MW:

86 kDa

Observed MW:

86 kDa

Purification Method:

Protein G purification

CloneNo.:

3F2A1

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

Human, Mouse, Rat

Positive Controls:

WB : A549 cells, LNCap cells, HeLa cells, HEK-293 cells,
Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells,
4T1 cells

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 IFN-inducible 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.

Storage

Storage:

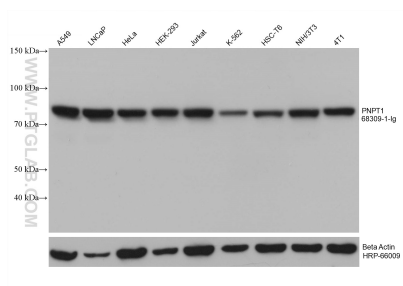
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

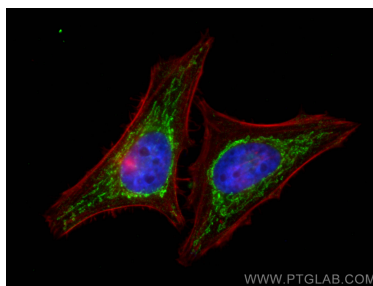
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68309-1-Ig (PNPT1 antibody) at dilution of 1:10000 and incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PNPT1 antibody (68309-1-Ig, Clone: 3F2A1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).