

For Research Use Only

# PNPT1 Monoclonal antibody, PBS Only



Catalog Number: 68309-1-PBS

## Basic Information

<b>Catalog Number:</b> 68309-1-PBS	<b>GenBank Accession Number:</b> BC053660	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug , Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 87178	<b>CloneNo.:</b> 3F2A1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q8TCS8	
<b>Isotype:</b> IgG1	<b>Full Name:</b> polyribonucleotide nucleotidyltransferase 1	
<b>Immunogen Catalog Number:</b> AG6290	<b>Calculated MW:</b> 86 kDa	
	<b>Observed MW:</b> 86 kDa	

## Applications

**Tested Applications:**  
WB, IF, Indirect ELISA

**Species Specificity:**  
Human, Mouse, Rat

## 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

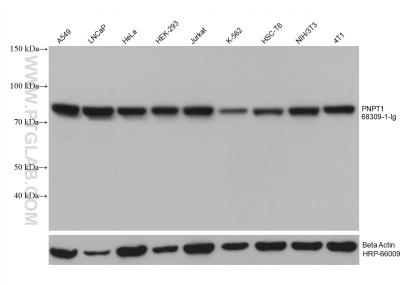
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

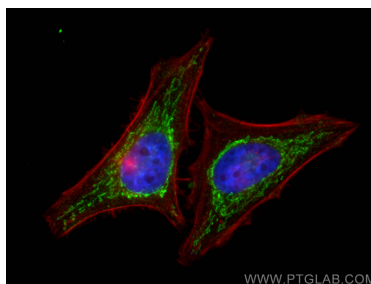
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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## 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. This data was developed using the same antibody clone with 68309-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 68309-1-PBS in a different storage buffer formulation.