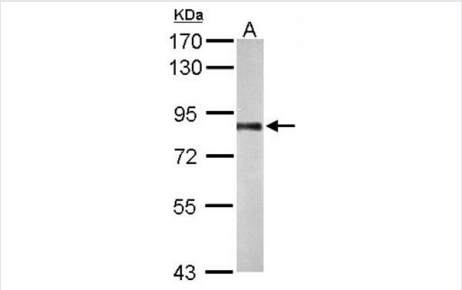
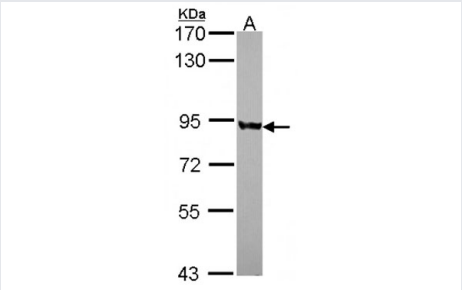
PNPase Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

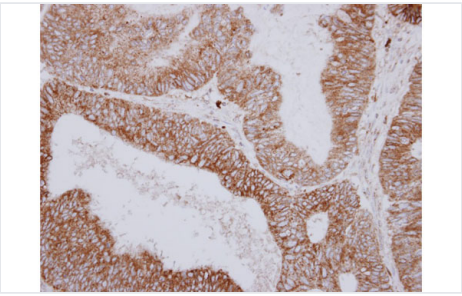
Product Name	PNPase, Polyclonal Antibody
Full Product Name	PNPase antibody
Product Gene Name	anti-PNPase antibody
Product Synonym Names	Polyclonal PNPase; Anti-PNPase; 3'-5' RNA exonuclease OLD35; polynucleotide phosphorylase-like protein; PNPT1; OLD35; PNPASE; PNPase old-35; old-35; DKFZp762K1914; PNPase 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Form/Format	Supplied as a concentrated soloution containing 0.1M Tris, 0.1M Glycine, 20% Glycerol (pH 7.0). 0.01% Thimerosal was added as a preservative.
Purity/Purification	PNPase antibody was purified by antigen-affinity chromatography
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	86 kDa
OMIM	610316
3D Structure	ModBase 3D Structure for Q8TCS8
Cross-Reactivity	Human, Mouse
Product Categories/Family for anti-PNPase antibody	DNA & RNA; Purified Polyclonal Antibodies
Applications Tested/Suitable for anti-PNPase antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-PNPase antibody	IHC-P: 1:100-1:500 WB: 1:500-1:3000
Related Product Information for anti-PNPase antibody	MBS835362 is an antibody targeting PNPase. Also known as PNPase antibody. Host: Rabbit. Affinity purified Rabbit polyclonal PNPase antibody
Other Notes	Small volumes of anti-PNPase antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-PNPase antibody
Western blot analysis of 50 ug of whole cell lysate (A: Mouse liver) using a 7.5 % SDS PAGE gel and PNPase antibody at a dilution of 1:1000



Western Blot (WB) of anti-PNPase antibody
Western blot analysis of 30 ug of whole cell lysate (A: JurKat) using a 7.5 % SDS PAGE gel and PNPase antibody at a dilution of 1:1000



Immunohistochemistry (IHC) of anti-PNPase antibody
Immunohistochemical staining of paraffin-embedded Colon ca using PNPase antibody at a dilution of 1:250

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PNPase. It may not necessarily be applicable to this product.

NCBI GI #	31335241
NCBI GeneID	87178
NCBI Accession #	AAP44472.1
UniProt Primary Accession #	Q8TCS8
UniProt Secondary Accession #	Q53SU0; Q68CN1; Q7Z7D1; Q8IWX1; Q96T05; Q9BRU3; Q9BVX0
UniProt Related Accession #	Q8TCS8
NCBI Official Full Name	PNPase, partial
NCBI Official Synonym Full Names	polyribonucleotide nucleotidyltransferase 1
NCBI Official Symbol	PNPT1
NCBI Official Synonym Symbols	OLD35; DFNB70; PNPASE; old-35; COXPD13
UniProt Protein Name	Polyribonucleotide nucleotidyltransferase 1, mitochondrial
UniProt Synonym Protein Names	3'-5' RNA exonuclease OLD35; PNPase old-35; Polynucleotide phosphorylase 1; PNPase 1; Polynucleotide phosphorylase-like protein
Protein Family	Polyribonucleotide nucleotidyltransferase
UniProt Gene Name	PNPT1
UniProt Synonym Gene Names	PNPASE; PNPase 1
UniProt Entry Name	PNPT1_HUMAN
NCBI Protein Information	polyribonucleotide nucleotidyltransferase 1, mitochondrial

NCBI Summary for PNPase	The protein encoded by this gene belongs to the evolutionary conserved polynucleotide phosphorylase family comprised of phosphate dependent 3'-to-5' exoribonucleases implicated in RNA processing and degradation. This enzyme is predominantly localized in the mitochondrial intermembrane space and is involved in import of RNA to mitochondria. Mutations in this gene have been associated with combined oxidative phosphorylation deficiency-13 and autosomal recessive nonsyndromic deafness-70. Related pseudogenes are found on chromosomes 3 and 7. [provided by RefSeq, Dec 2012]
UniProt Comments for PNPase	PNPT1: RNA-binding protein implicated in numerous RNA metabolic processes. Hydrolyzes single-stranded polyribonucleotides processively in the 3'-to-5' direction. Mitochondrial intermembrane factor with RNA-processing exoribonulease activity. Component of the mitochondrial degradosome (mtEXO) complex, that degrades 3' overhang double-stranded RNA with a 3'-to-5' directionality in an ATP-dependent manner. Required for correct processing and polyadenylation of mitochondrial mRNAs. Plays a role as a cytoplasmic RNA import factor that mediates the translocation of small RNA components, like the 5S RNA, the RNA subunit of ribonuclease P and the mitochondrial RNA-processing (MRP) RNA, into the mitochondrial matrix. Plays a role in mitochondrial morphogenesis and respiration; regulates the expression of the electron transport chain (ETC) components at the mRNA and protein levels. In the cytoplasm, shows a 3'-to-5' exoribonuclease mediating mRNA degradation activity; degrades c- myc mRNA upon treatment with IFNB1/IFN-beta, resulting in a growth arrest in melanoma cells. Regulates the stability of specific mature miRNAs in melanoma cells; specifically and selectively degrades miR-221, preferentially. Plays also a role in RNA cell surveillance by cleaning up oxidized RNAs. Binds to the RNA subunit of ribonuclease P, MRP RNA and miR-221 microRNA. Belongs to the polyribonucleotide nucleotidyltransferase family. Protein type: EC 2.7.7.8; Nucleotide Metabolism - pyrimidine; Transferase; Nucleotide Metabolism - purine; Mitochondrial; RNA-binding Chromosomal Location of Human Ortholog: 2p15 Cellular Component: mitochondrion; membrane; cytoplasm; mitochondrial intermembrane space Molecular Function: protein binding; 3'-5'-exoribonuclease activity; miRNA binding; poly(U) binding; polyribonucleotide nucleotidyltransferase activity; poly(rG) binding Biological Process: regulation of cellular respiration; RNA polyadenylation; RNA catabolic process; mRNA catabolic process; protein homooligomerization; negative regulation of growth Disease: Deafness, Autosomal Recessive 70; Combined Oxidative Phosphorylation Deficiency 13
Research Articles on PNPase	**1.** this study provides further evidence that hPNPase(old-35) is associated with global changes in cell cycle-associated genes and identifies potential gene targets for future investigation
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