

PNPase Polyclonal Antibody

Catalog No :	YT3807
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	PNPase
Fields :	>>RNA degradation
Gene Name :	PNPT1
Protein Name :	Polyribonucleotide nucleotidyltransferase 1 mitochondrial
Human Gene Id :	87178
Human Swiss Prot No :	Q8TCS8
Mouse Gene Id :	71701
Mouse Swiss Prot No :	Q8K1R3
Immunogen :	The antiserum was produced against synthesized peptide derived from human PNPT1. AA range:570-619
Specificity :	PNPase Polyclonal Antibody detects endogenous levels of PNPase protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 85kD

Cell Pathway : Purine metabolism;Pyrimidine metabolism;RNA degradation;

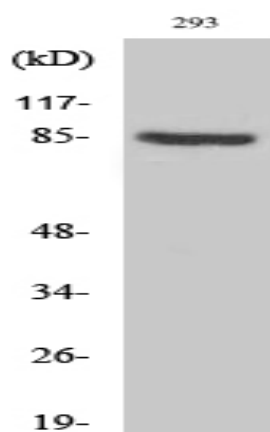
Background : The protein encoded by this gene belongs to the evolutionary conserved polynucleotide phosphorylase family comprised of phosphate dependent 3'-to-5' exoribonucleases implicated in RNA processing and degradation. This enzyme is predominantly localized in the mitochondrial intermembrane space 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],

Function : catalytic activity:RNA(n+1) + phosphate = RNA(n) + a nucleoside diphosphate.,function:Involved in mRNA degradation. Hydrolyzes single-stranded polyribonucleotides processively in the 3'- to 5'-direction.,induction:Up-regulated in cells upon senescence and terminal differentiation. Up-regulated after treatment with interferon beta (IFN-beta).,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the polyribonucleotide nucleotidyltransferase family.,similarity:Contains 1 KH domain.,similarity:Contains 1 S1 motif domain.,subunit:Homotrimer (Potential). Interacts with TCL1A; the interaction has no effect on PNPT1 exonuclease activity.,

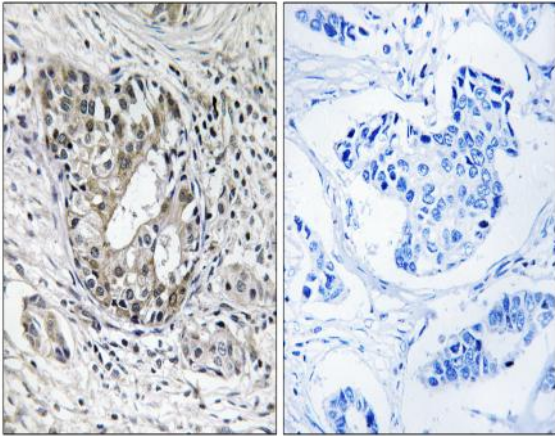
Subcellular Location : Cytoplasm . Mitochondrion matrix . Mitochondrion intermembrane space ; Peripheral membrane protein .

Expression : Cervix,Epithelium,Melanoma,Skin,Teratocarcinoma,Urinary bla

Products Images



Western Blot analysis of various cells using PNPase Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using PNPT1 Antibody. The picture on the right is blocked with the synthesized peptide.