Immunotag™ PNPase Polyclonal Antibody

Antibody Specification

Catalog No.	ITT3807
Product Description	Immunotag™ PNPase Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PNPase
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse
Host Species	Rabbit
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.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	PNPT1
Accession No.	Q8TCS8 Q8K1R3
Alternate Names	PNPT1; PNPASE; Polyribonucleotide nucleotidyltransferase 1; mitochondrial; 3'-5' RNA exonuclease OLD35; PNPase old-35; Polynucleotide phosphorylase 1; PNPase 1; Polynucleotide phosphorylase-like protein

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Description	polyribonucleotide nucleotidyltransferase 1(PNPT1) Homo sapiens 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],
Cell Pathway/ Category	Purine metabolism,Pyrimidine metabolism,RNA degradation,
Protein Expression	Cervix,Epithelium,Melanoma,Skin,Teratocarcinoma,Urinary bla
Subcellular Localization	cytoplasm,mitochondrion,mitochondrial intermembrane space,membrane,mitochondrial degradosome,
Protein 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.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.