

PNPT1 antibody

Product Information

Catalog No.:	FNab06593
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months(Avoid repeated freeze / thaw cycles.)

Background

RNA-binding protein implicated in numerous RNA metabolic processes. Catalyzes the phosphorolysis of single-stranded polyribonucleotides processively in the 3'-to-5' direction. Mitochondrial intermembrane factor with RNA-processing exoribonuclease 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 IFNβ1/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.

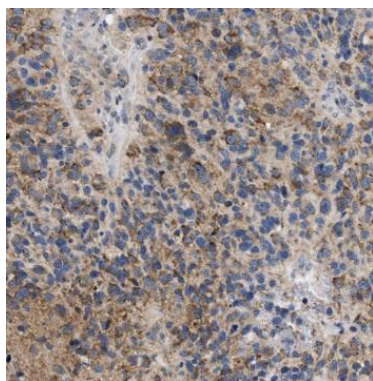
Immunogen information

Immunogen:	polyribonucleotide nucleotidyltransferase 1
Synonyms:	Polyribonucleotide nucleotidyltransferase 1, mitochondrial 3'-5' RNA exonuclease OLD35 PNPase old-35 Polynucleotide phosphorylase 1 (PNPase 1) Polynucleotide phosphorylase-like protein PNPT1 PNPASE
Observed MW:	90 kDa
Uniprot ID :	Q8TCS8
Application	
Reactivity:	Human, Mouse, Rat

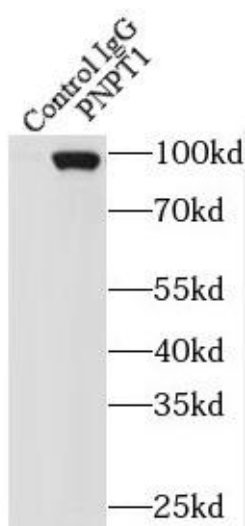
Tested Application: ELISA, WB, IHC, IP

Recommended dilution: WB: 1:500-1:2000; IP: 1:200-1:1000; IHC: 1:20-1:200

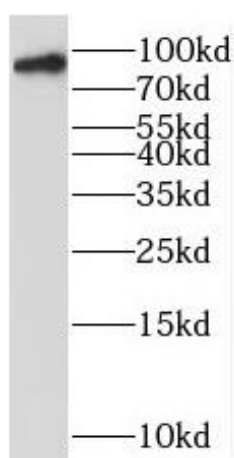
Image:



Immunohistochemistry of paraffin-embedded human gliomas using FNab06593(PNPT1 antibody) at dilution of 1:100



IP Result of anti-PNPT1 (IP:FNab06593, 4ug; Detection:FNab06593 1:1000) with mouse brain tissue lysate 4000ug.



human brain tissue were subjected to SDS PAGE followed by western blot with FNab06593(PNPT1 antibody) at dilution of 1:1500