

Datasheet for ABIN7505261 **Pyrophosphatase (Inorganic) 1 (PPA1) (AA 2-289) protein (His** tag)



Overview

Quantity:	100 µg
Target:	Pyrophosphatase (Inorganic) 1 (PPA1)
Protein Characteristics:	AA 2-289
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag

Product Details

Sequence:	Ser 2-Asn 289
Characteristics:	A DNA sequence encoding the Human PPA1 protein (Q15181) (Ser 2-Asn 289) was expressed with a N-His&C-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	Pyrophosphatase (Inorganic) 1 (PPA1)
Alternative Name:	PPA1 (PPA1 Products)
Target Type:	Viral Protein
Background:	Abbreviation: PPA1
	Target Synonym: Inorganic pyrophosphatase,PPA1,Pyrophosphate phospho-hydrolase (PPase)
	Background: PPA1 (Inorganic pyrophosphatase 1, also PPase and IOPPP) is a 32-36 kDa

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	cytoplasmic member of the PPase family of enzymes. It is ubiquitously expressed, and acts on di- (or pyro) phosphate, generating orthophosphate in a Mg+-dependent manner. This activity can both generate energy for cells, or in the case of osteoblasts, provide raw material for calcification. The consumption of pyrophosphate may also remove inhibitors of enzymes such
	as guanylyl cyclase, and PPA I itself is also reported to stimulate gene expression. Human
	255 and two utilized acetulation sites at Lvs 57 and Lvs228 PPA1 is known to form
	homodimers. There is one potential alternative start site at Met46. Full-length human PPA1
	shares 94 % aa sequence identity with mouse PPA1.
Molecular Weight:	Calculated MW: 31.57 kDa
	Observed MW: 36 kDa
UniProt:	Q15181
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4.
	Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before
	lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.
Expiry Date:	12 months