

Datasheet for ABIN7317373 PHPT1 Protein (His tag)



Overview

Quantity:	100 µg
Target:	PHPT1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PHPT1 protein is labelled with His tag.
Product Details	
Purpose:	Recombinant Human PHPT1/PHP14 Protein (His Tag)
Sequence:	Ala 2-Tyr 125
Characteristics:	A DNA sequence encoding the human PHPT1 (Q9NRX4-1) (Ala 2-Tyr 125) was expressed, with
	a polyhistidine tag at the N-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Target Details	
Target:	PHPT1
Alternative Name:	PHPT1/PHP14 (PHPT1 Products)
Background:	Background: PHPT1, also known as 14 kDa phosphohistidine phosphatase, phosphohistidine
	phosphatase 1, protein janus-A homolog, PHP14, is a cytoplasm protein which belongs to
	the janus family. PHPT1 / PHP14 is expressed abundantly in heart and skeletal muscle.
	Phosphatases are a diverse group of enzymes that regulate numerous cellular processes.

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	Much of what is known relates to the tyrosine, threonine, and serine phosphatases, whereas the
	histidine phosphatases have not been studied as much. Protein histidine phosphorylation exists
	widely in vertebrates, and it plays important roles in signal transduction and other cellular
	functions. Protein histidine phosphorylation accounts for about 6% of the total protein
	phosphorylation in eukaryotic cells. The knowledge about eukaryotic PHPT (protein histidine
	phosphatase) is still very limited. To date, only one vertebrate PHPT has been discovered, and
	two crystal structures of human PHPT1 have been solved. PHPT1 / PHP14 can
	dephosphorylate a variety of proteins (e.g. ATP-citrate lyase and the beta-subunit of G proteins).
	A putative active site has been identified by its electrostatic character, ion binding, and
	conserved protein residues.
	Synonym: CGI-202;HEL-S-132P;HSPC141;PHP14
Molecular Weight:	15.2 kDa
Pathways:	Positive Regulation of Peptide Hormone Secretion
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
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.