

PHPT1

Reactivity: Human Mouse Rat

Tested applications: WB IHC IF

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

Calculated MW: 14kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human PHPT1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

PHPT1; CGI-202; DKFZp564M173; HSPC141; PHP14; bA216L13.10 ;

Catalog #: A1127

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 29085

Isotype: IgG

Swiss Prot: Q9NRX4

Purity: Affinity purification

For research use only.

Background:

PHPT1 (Phosphohistidine phosphatase 1), also known as 14 kDa phosphohistidine phosphatase, is a 125 amino acid enzyme belonging to the Janus protein family. Existing as a monomer in the cytoplasm, PHPT1 is an EDTA-insensitive phosphohistidine phosphatase. First identified in human adrenal gland, PHPT1 is highly expressed in skeletal muscle and heart, with lower expression in liver, pancreas and kidney. Overexpression of PHPT1 leads to specific phosphohistidine phosphatase activity towards phosphopeptide I, with no activity detected towards phosphotyrosine, phosphothreonine and phosphoserine peptides. PHPT1 is highly conserved among species, suggesting that it serves an essential functional role.

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