

## PHPT1

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**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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