

## **Product datasheet for TA323874**

## **PHPT1 Rabbit Polyclonal Antibody**

## **Product data:**

**Product Type:** Primary Antibodies

Applications: WE

Recommended Dilution: WB: 1:500-2000

**Reactivity:** Human, Mouse, Rat

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

**Immunogen:** Full length fusion protein

Formulation: PBS pH7.3, 0.05% NaN3, 50% glycerol

**Concentration:** lot specific

**Purification:** Antigen affinity purification

Conjugation: Unconjugated

**Storage:** Store at -20°C as received.

**Stability:** Stable for 12 months from date of receipt.

**Predicted Protein Size:** 14 kDa

**Gene Name:** phosphohistidine phosphatase 1

Database Link: NP 001129333

Entrez Gene 75454 MouseEntrez Gene 296571 RatEntrez Gene 29085 Human

Q9NRX4

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.

Synonyms: CGI-202; HEL-S-132P; HSPC141; PHP14



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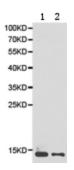


**Protein Families:** Druggable Genome

**Protein Pathways:** Fructose and mannose metabolism, Metabolic pathways, Riboflavin metabolism, Thiamine

metabolism

## **Product images:**



Predicted band size: 14 kDa. Positive control: MCF7 cell and kidney tissue lysate. Recommended dilution: 1/500-2000. (Gel: 12%SDS-PAGE Lane 1: MCF7 cell lysate Lane 2: Kidney tissue lysate Lysates: 40 ug per lane Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)