

Human 14 kDa phosphohistidine phosphatase (PHPT1) ELISA Kit | PHPT1 elisa kit

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CATALOG #
AAA247185

REACTIVITY
Human

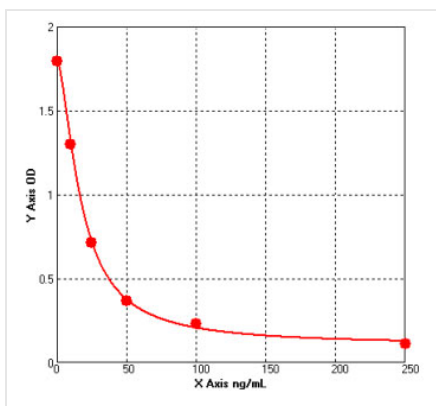
PRODUCT SYNONYMS

14 kDa phosphohistidine phosphatase (PHPT1); Human 14 kDa phosphohistidine phosphatase (PHPT1) ELISA Kit; PHPT1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PHPT1. No significant cross-reactivity or interference between PHPT1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between PHPT1 and all the analogues, therefore, cross reaction may still exist in some cases.
Sequence Length	127
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	1.0 ng/mL

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PHPT1 elisa kit	Principle of the Assay: PHPT1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-PHPT1 antibody and an PHPT1-HRP conjugate. The assay sample and buffer are incubated together with PHPT1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the PHPT1 concentration since PHPT1 from samples and PHPT1-HRP conjugate compete for the anti-PHPT1 antibody binding site. Since the number of sites is limited, as more sites are occupied by PHPT1 from the sample, fewer sites are left to bind PHPT1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The PHPT1 concentration in each sample is interpolated from this standard curve. Intended Uses: This PHPT1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human PHPT1. This ELISA kit for research use only, not for therapeutic or test applications!
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NCBI AND UNIPROT INFORMATION

NCBI GI #	565324201
NCBI GeneID	29085
NCBI Accession #	NP_001274271.1
NCBI GenBank Nucleotide #	NM_001287342.1
UniProt Accession #	Q9NRX4; Q9H0Y3; B1AMX0; B1AMX1
Molecular Weight	13,672 Da
NCBI Official Full Name	14 kDa phosphohistidine phosphatase isoform 4
NCBI Official Synonym Full Names	phosphohistidine phosphatase 1
NCBI Official Symbol	PHPT1
NCBI Official Synonym Symbols	PHP; PHP14; CGI-202; HSPC141; HEL-S-132P
NCBI Protein Information	14 kDa phosphohistidine phosphatase
UniProt Protein Name	14 kDa phosphohistidine phosphatase
UniProt Gene Name	PHPT1
UniProt Synonym Gene Names	PHP14; PHP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.