

Rabbit anti-Human PHPT1 Polyclonal Antibody | anti-PHPT1 antibody

Anti-PHPT1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255581	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

PHPT1; Polyclonal Antibody; Anti-PHPT1 Antibody; Rabbit Polyclonal; PHPT1 Antibody; Rabbit PAb; Antigen Affinity Purified; phosphohistidine phosphatase 1; Anti-CGI-202 Antibody; Anti-HEL-S-132P Antibody; Anti-HSPC141 Antibody; Anti-PHP14 Antibody; anti-PHPT1 antibody

PRODUCT SPECIFICATIONS

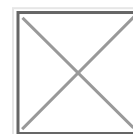
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PHPT1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-PHPT1 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Human PHPT1 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human PHPT1 (rh PHPT1). PHPT1 specific IgG was purified by Human PHPT1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-PHPT1 rabbit polyclonal antibody at 1:500 dilution Lane A: HepG2 Whole Cell Lysate Lane B: THP1 Whole Cell Lysate Lane C: MCF7 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 14 kDa Observed band size: 14 kDa



IP (Immunoprecipitation)

PHPT1 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate Lane B: 0.5 mg A549 Whole Cell Lysate Lane C: 0.5 mg THP-1 Whole Cell Lysate Lane D: 0.5 mg MCF-7 Whole Cell Lysate 2 uL anti-PHPT1 rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-PHPT1 rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odssey technique. Performed under reducing conditions. Predicted band size: 14 kDa Observed band size: 14 kDa



IHC (Immunohistochemistry)

Immunochemical staining of human PHPT1 in human skeletal muscle with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-PHPT1 antibody	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. 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.
References	Busam, R.D. et al., 2006, J Biol Chem. 281 (45):33830-4. Zhang, X.Q. et al., 2009, Ups J Med Sci.114 (2):65-72. Gong, W. et al., 2009, Biochem J. 418 (2):337-44. Chapin, L.J. et al., 2009, J Exp Bot. 60 (7):2179-90.

NCBI AND UNIPROT INFORMATION

NCBI GI #	25008934
NCBI GeneID	29085
UniProt Accession #	Q9NRX4; Q9H0Y3; B1AMX0; B1AMX1
Molecular Weight	125
NCBI Official Full Name	14 kDa phosphohistidine phosphatase
NCBI Official Synonym Full Names	phosphohistidine phosphatase 1
NCBI Official Symbol	PHPT1
NCBI Official Synonym Symbols	PHP14; CGI-202; HSPC141; HEL-S-132P
NCBI Protein Information	14 kDa phosphohistidine phosphatase; protein janus-A homolog; sex-regulated protein janus-a; epididymis secretory sperm binding protein Li 132P
UniProt Protein Name	14 kDa phosphohistidine phosphatase
UniProt Gene Name	PHPT1
UniProt Synonym Gene Names	PHP14
UniProt Entry Name	PHP14_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/phpt1-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/255581>