

Rabbit PHPT1 Polyclonal Antibody | anti-PHPT1 antibody

PHPT1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326042	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

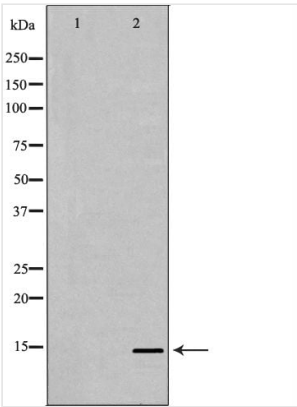
PRODUCT SYNONYMS

PHPT1; Polyclonal Antibody; PHPT1 Antibody; 14 kDa phosphohistidine phosphatase; CGI 202; HSPC141; Phosphohistidine phosphatase 1; PHP14; PHP14_HUMAN; Protein janus A homolog; Protein janus-A homolog; Sex regulated protein janus a; anti-PHPT1 antibody

PRODUCT SPECIFICATIONS

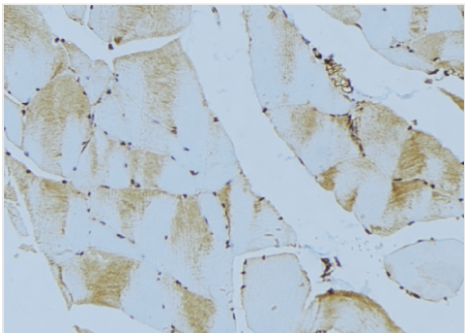
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PHPT1 antibody detects endogenous levels of total PHPT1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	124
Applicable Applications for anti-PHPT1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PHPT1
Subcellular Location	Cytoplasm.
Tissue Specificity	Expressed abundantly in heart and skeletal muscle.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Zebrafish (86%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of A549 whole cell lysates, using PHPT1 Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326042 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-PHPT1 antibody

Description: PHPT1 (Phosphohistidine phosphatase 1), also known as 14 kDaphosphohistidine 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.

Function: Exhibits phosphohistidine phosphatase activity.

Subunit Structure: Monomer.

Similarity: Belongs to the janus family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	209529723
NCBI GeneID	29085
NCBI Accession #	NP_001129333.1
NCBI GenBank Nucleotide #	NM_001135861.2
UniProt Accession #	Q9NRX4; Q9H0Y3; B1AMX0; B1AMX1
Molecular Weight	Observed: 14 kDa Predicted: 14 kDa
NCBI Official Full Name	14 kDa phosphohistidine phosphatase isoform 2
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; PHPT11 PublicationManual assertion based on opinion iniRef.14; PHP1 PublicationManual assertion based on opinion iniRef.10

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-immunohistochemistry-western-blot-elisa/326042>