

PHTNS Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9994a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q6NYC8
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24756
Calculated MW	67943
Antigen Region	192-220

Additional Information

Gene ID	170954
Other Names	Phostensin, Protein phosphatase 1 F-actin cytoskeleton-targeting subunit, Protein phosphatase 1 regulatory subunit 18, PPP1R18, HKMT1098, KIAA1949
Target/Specificity	This PHTNS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 192-220 amino acids from the N-terminal region of human PHTNS.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PHTNS Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PPP1R18
Synonyms	HKMT1098, KIAA1949
Function	[Isoform 1]: May target protein phosphatase 1 to F-actin cytoskeleton.

Cellular Location

[Isoform 1]: Cytoplasm, cytoskeleton

Tissue Location

Isoform 4 is predominantly expressed in leukocytes and spleen.

Background

PHTNS interacts with regulatory subunits that target the enzyme to different cellular locations and change its activity toward specific substrates. Phostensin is a regulatory subunit that targets PP1 to F-actin cytoskeleton.

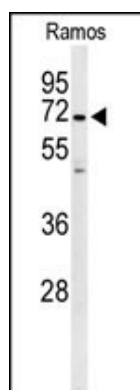
References

Lai, N.S., et al. Biochem. Biophys. Res. Commun. 387(4):676-681(2009)

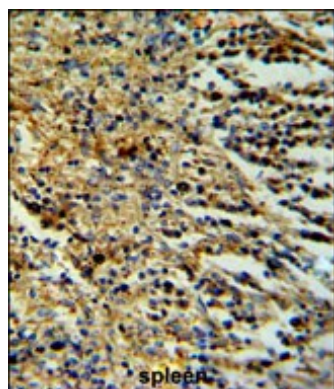
Barcellos, L.F., et al. PLoS Genet. 5 (10), E1000696 (2009)

Kao, S.C., et al. Biochem. Biophys. Res. Commun. 356(3):594-598(2007)

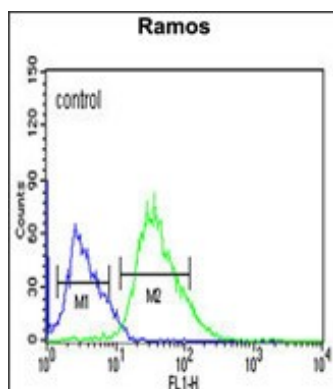
Images



Western blot analysis of PHTNS Antibody (N-term) (Cat. #AP9994a) in Ramos cell line lysates (35ug/lane). PHTNS (arrow) was detected using the purified Pab.



PHTNS Antibody (N-term) (Cat. #AP9994a) IHC analysis in formalin fixed and paraffin embedded human spleen tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PHTNS Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



PHTNS Antibody (N-term) (Cat. #AP9994a) flow cytometric analysis of Ramos cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.