

MINPP1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14723b

Specification

MINPP1 Antibody (C-term) - Product Information

Application	WB, FC,E
Primary Accession	Q9UNW1
Other Accession	NP_004888.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	370-398

MINPP1 Antibody (C-term) - Additional Information

Gene ID 9562

Other Names

Multiple inositol polyphosphate phosphatase 1, 3-bisphosphoglycerate 3-phosphatase, 3-BPG phosphatase, Inositol (1, 5)-tetrakisphosphate 3-phosphatase, Ins(1, 5)P(4) 3-phosphatase, MINPP1, MIPP

Target/Specificity

This MINPP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 370-398 amino acids from the C-terminal region of human MINPP1.

Dilution

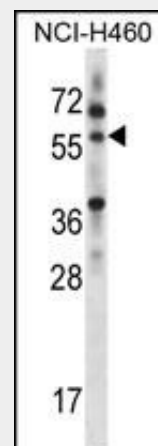
WB~~1:1000
FC~~1:10~50

Format

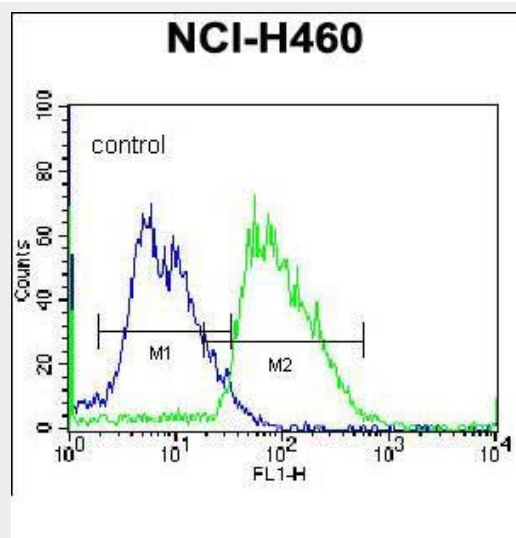
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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.



MINPP1 Antibody (C-term) (Cat. #AP14723b) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the MINPP1 antibody detected the MINPP1 protein (arrow).



MINPP1 Antibody (C-term) (Cat. #AP14723b) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

MINPP1 Antibody (C-term) - Background

Precautions

MINPP1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MINPP1 Antibody (C-term) - Protein Information

Name MINPP1

Synonyms MIPP

Function

Acts as a phosphoinositide 5- and phosphoinositide 6- phosphatase and regulates cellular levels of inositol pentakisphosphate (InsP5) and inositol hexakisphosphate (InsP6). Also acts as a 2,3- bisphosphoglycerate 3-phosphatase, by mediating the dephosphorylation of 2,3-bisphosphoglycerate (2,3-BPG) to produce phospho-D-glycerate without formation of 3-phosphoglycerate. May play a role in bone development (endochondral ossification). May play a role in the transition of chondrocytes from proliferation to hypertrophy (By similarity).

Cellular Location

Endoplasmic reticulum lumen
{ECO:0000250|UniProtKB:O35217}

Tissue Location

Widely expressed with highest levels in kidney, liver and placenta.

MINPP1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

This gene encodes multiple inositol polyphosphate phosphatase; an enzyme that removes 3-phosphate from inositol phosphate substrates. It is the only enzyme known to hydrolyze inositol pentakisphosphate and inositol hexakisphosphate. This enzyme also converts 2,3 bisphosphoglycerate (2,3-BPG) to 2-phosphoglycerate; an activity formerly thought to be exclusive to 2,3-BPG synthase/2-phosphatase (BPGM) in the Rapoport-Luebering shunt of the glycolytic pathway.

MINPP1 Antibody (C-term) - References

Newman, A.B., et al. J. Gerontol. A Biol. Sci. Med. Sci. 65(5):478-487(2010)
Cho, J., et al. Proc. Natl. Acad. Sci. U.S.A. 105(16):5998-6003(2008)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006)
Liu, T., et al. J. Proteome Res. 4(6):2070-2080(2005)