Product Name: MIPP Rabbit Polyclonal Antibody
Catalog #: APRab13913
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
Molecular Weight	60kDa

Antigen Information

Gene Name	MINPP1
Alternative Names	MINPP1; MIPP; Multiple inositol polyphosphate phosphatase 1; 2; 3-bisphosphoglycerate 3-phosphatase; 2,3-BPG phosphatase; Inositol; 1,3,4,5)-tetrakisphosphate 3-phosphatase; Ins(1,3,4,5)P(4) 3-phosphatase
Gene ID	9562.0
SwissProt ID	Q9UNW1
Immunogen	The antiserum was produced against synthesized peptide derived from human MINPP1. AA range:328-377

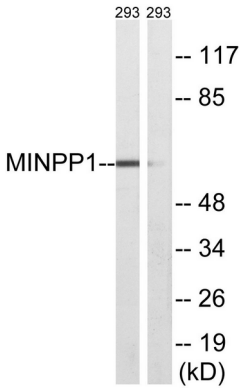
Background

This gene encodes multiple inositol polyphosphate phosphatase; an enzyme that removes 3-phosphate from inositol phosphate substrates. It is the only enzyme known to hydrolzye 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.[provided by RefSeq, Sep 2009],catalytic activity:Myo-inositol hexakisphosphate + H(2)O = myo-inositol pentakisphosphate (mixed isomers) + phosphate.,disease:Defects in MINPP1 may be involved in follicular thyroid tumors development.,function:Acts as a phosphoinositide 5- and phosphoinositide 6-phosphatase and regulates cellular levels of inositol pentakisphosphate (InsP5) and inositol hexakisphosphate (InsP6) (By similarity). May play a role in bone development (endochondral ossification).,tissue specificity:Widely expressed with highest levels in kidney, liver and placenta.,

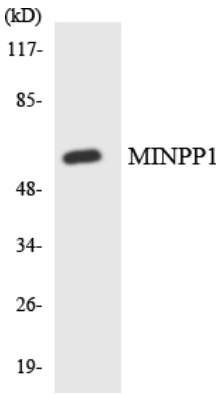
Research Area

Inositol phosphate metabolism;

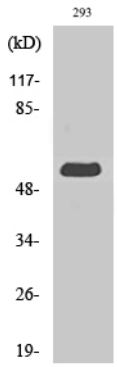
Image Data



Western blot analysis of lysates from 293 cells, using MINPP1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HepG2 cells using MINPP1 antibody.



Western Blot analysis of various cells using MIPP Polyclonal Antibody