

IMPA1 Polyclonal antibody

Catalog Number: 16593-1-AP

Basic Information

Catalog Number:

16593-1-AP

Size:

600 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9632

GenBank Accession Number:

BC008381

GeneID (NCBI):

3612

UNIPROT ID:

P29218

Full Name:

inositol(myo)-1(or 4)-
monophosphatase 1

Calculated MW:

277 aa, 30 kDa

Observed MW:

30 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:20-1:200

IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with
TE buffer pH 9.0; (*) Alternatively, antigen
retrieval may be performed with citrate
buffer pH 6.0**

Positive Controls:

WB : rat kidney tissue, human kidney tissue, human
brain tissue, mouse kidney tissue

IHC : human brain tissue,

IF/ICC : HepG2 cells,

Background Information

IMPA1 is an enzyme that dephosphorylates myo-inositol monophosphate to generate free myo-inositol, a precursor of phosphatidylinositol, and is therefore an important modulator of intracellular signal transduction via the production of the second messengers myoinositol 1,4,5-trisphosphate and diacylglycerol.

Storage

Storage:

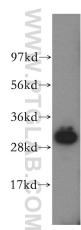
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

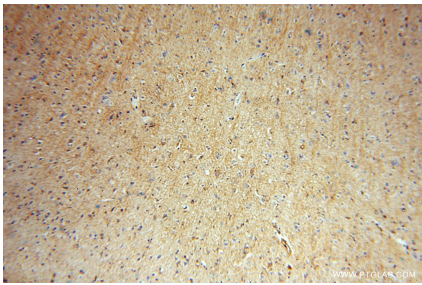
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

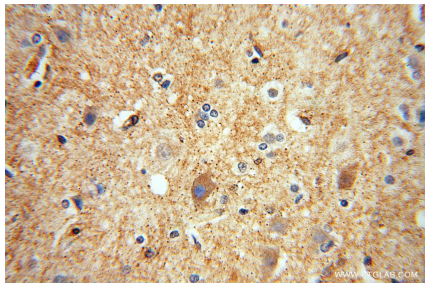
Selected Validation Data



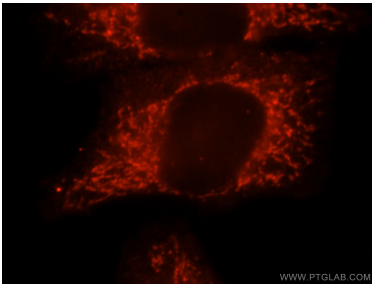
human kidney tissue were subjected to SDS PAGE followed by western blot with 16593-1-AP (IMPA1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



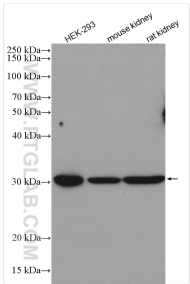
Immunohistochemical analysis of paraffin-embedded human brain using 16593-1-AP (IMPA1 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 16593-1-AP (IMPA1 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using IMPA1 antibody 16593-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Various lysates were subjected to SDS PAGE followed by western blot with 16593-1-AP (IMPA1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.