

IMPA1 Rabbit Polyclonal Antibody



CAB6381

Product Information

Size:

20uL, 50uL, 100uL, 200uL

Observed MW:

30kDa

Calculated MW:

21kDa/30kDa/36kDa

Applications:

WB IHC IF

Reactivity:

Human, Mouse, Rat

Antibody Information

Recommended dilutions:

WB 1:500 - 1:2000 IHC 1:50
- 1:200 IF 1:10 - 1:100

Source:

Rabbit

Isotype:

IgG

Purification:

Affinity purification

Protein Background

This gene encodes 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 myo-inositol 1, 4, 5-trisphosphate and diacylglycerol. This enzyme can also use myo-inositol-1, 3-diphosphate, myo-inositol-1, 4-diphosphate, scyllo-inositol-phosphate, glucose-1-phosphate, glucose-6-phosphate, fructose-1-phosphate, beta-glycerophosphate, and 2'-AMP as substrates. This enzyme shows magnesium-dependent phosphatase activity and is inhibited by therapeutic concentrations of lithium. Inhibition of inositol monophosphate hydrolysis and subsequent depletion of inositol for phosphatidylinositol synthesis may explain the anti-manic and anti-depressive effects of lithium administered to treat bipolar disorder. Alternative splicing results in multiple transcript variants encoding distinct isoforms. A pseudogene of this gene is also present on chromosome 8q21.13.

Immunogen information

Gene ID:

3612

Uniprot

P29218

Synonyms:

IMPA1; IMP; IMPA; MRT59

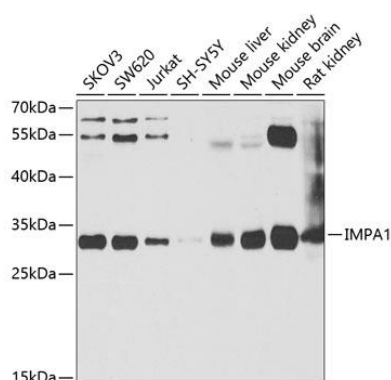
Immunogen:

Recombinant fusion protein containing a sequence corresponding to amino acids 1-277 of human IMPA1 (NP_005527.1).

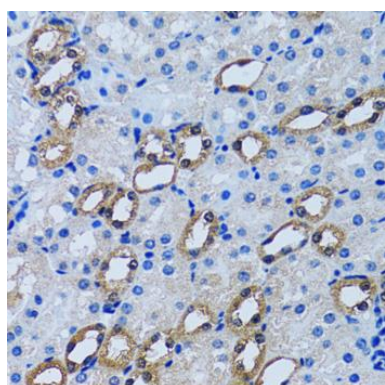
Storage:

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

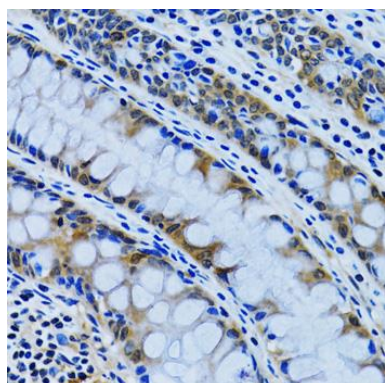
Product Images



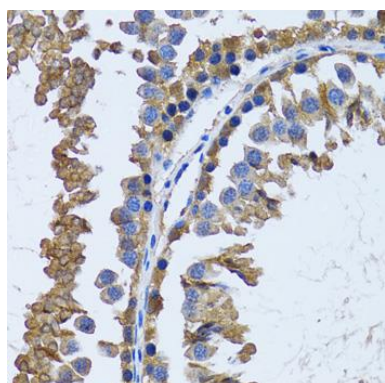
Western blot analysis of extracts of various cell lines, using IMPA1 antibody (CAB6381) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 90s.



Immunohistochemistry of paraffin-embedded rat kidney using IMPA1 antibody (CAB6381) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human colon using IMPA1 antibody (CAB6381) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse testis using IMPA1 antibody (CAB6381) at dilution of 1:100 (40x lens).