Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

IMPA1 Polyclonal Antibody

Catalog No: tcba10117

Available Sizes

Size: 50ul

Size: 100ul

Size: 200ul

Specifications

Application:
WB,IHC,IF

Research Area:
Neuroscience,Cardiovascular,Cell Biology,Metabolism,Lipid Metabolism pathway,

Species Reactivity:
Human,Mouse,Rat

Host Species:
Rabbit

Isotype:
IgG

Form:
Liquid

Storage Buffer:
Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

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

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Storage Instruction:
Store at -20℃. Avoid freeze / thaw cycles.

Alternative Names:
IMP;IMPA;MRT59

SwissProt:
P29218

Gene ID:
3612 (human);

Calculated Molecular Weight:
21kDa/30kDa/36kDa

Purification:
Affinity purification

Cellular Location:
Cytoplasm,

Product Description

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 myoinositol 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 hydroylosis 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.

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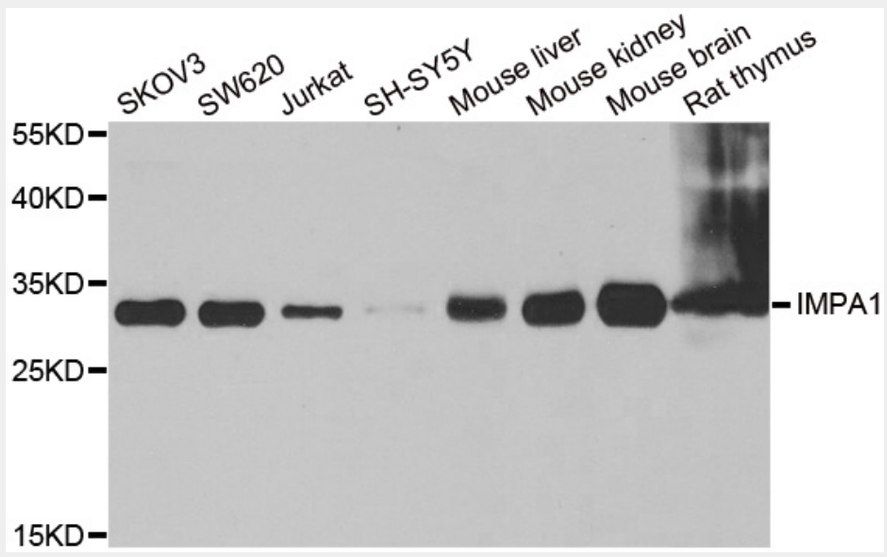
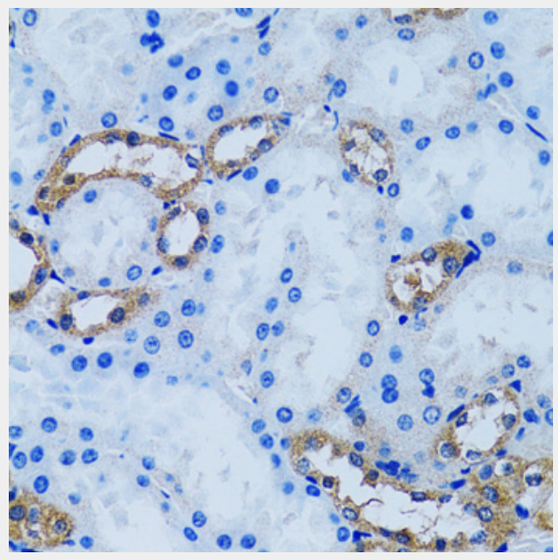
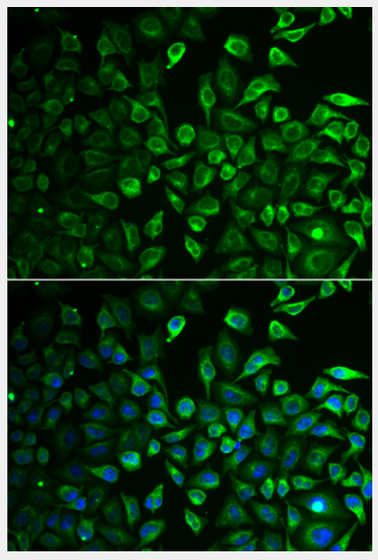


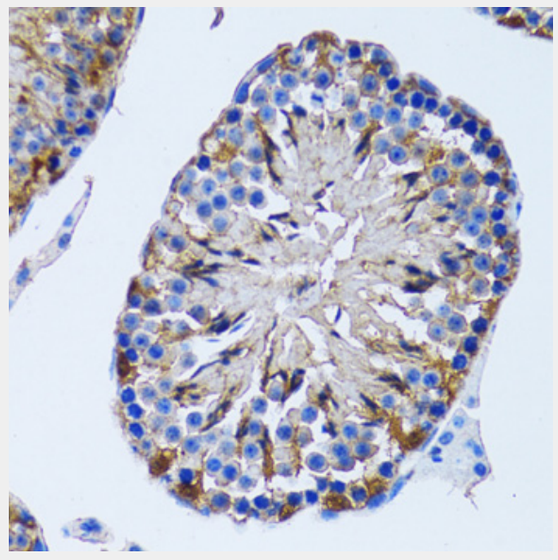
Western blot analysis of extracts of various cell lines, using IMPA1 antibody at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit.
Exposure time: 90s.



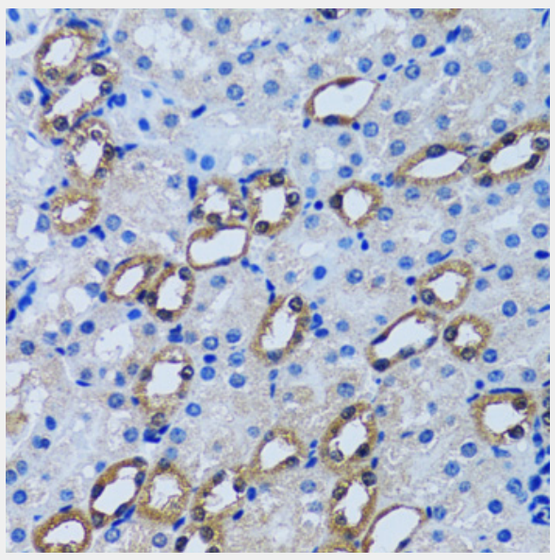
Immunohistochemistry of paraffin-embedded mouse kidney using IMPA1 antibody at dilution of 1:100 (40x lens).



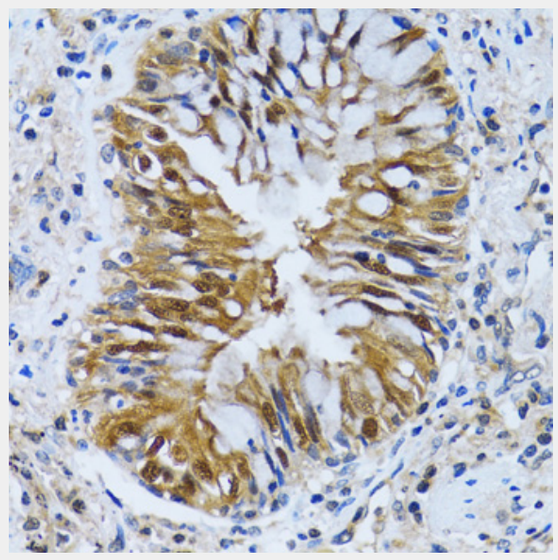
Immunofluorescence analysis of A549 cells using IMPA1 antibody. Blue: DAPI for nuclear staining.



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



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



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

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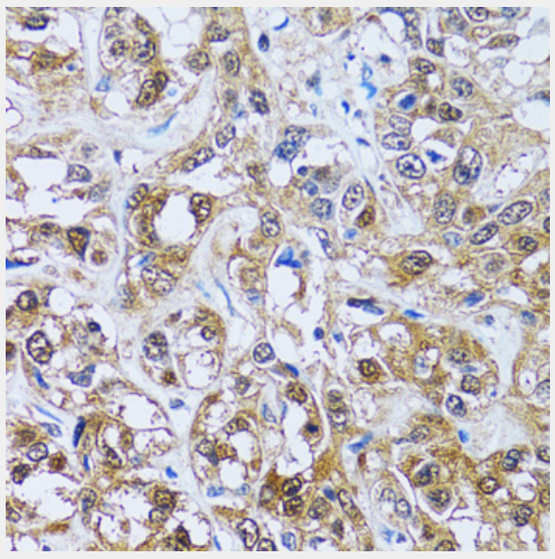
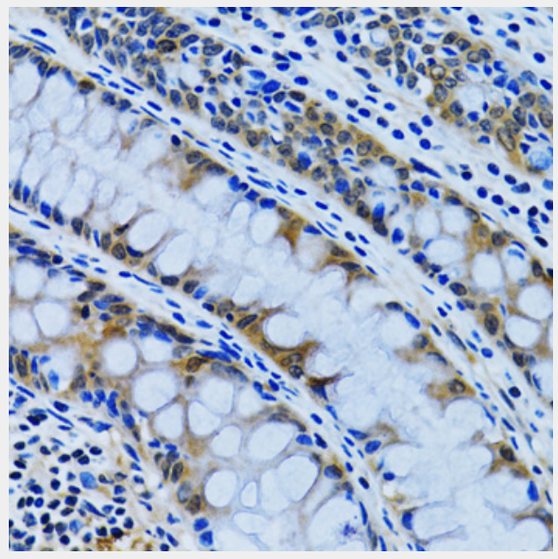
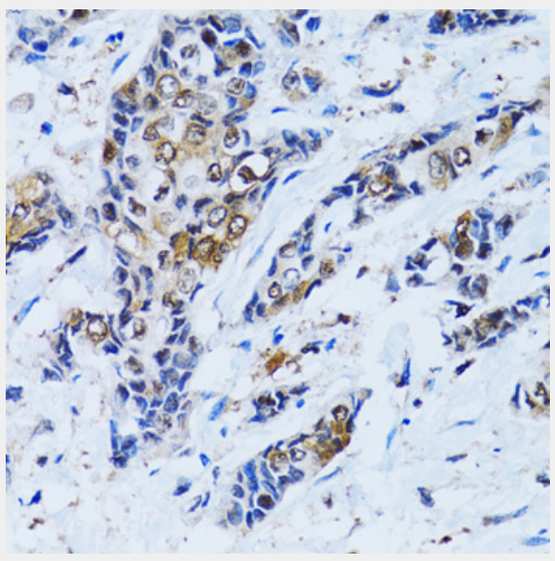


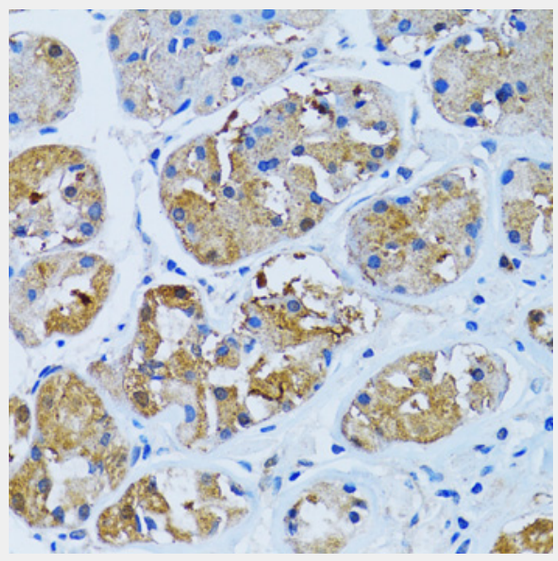
Immunohistochemistry of paraffin-embedded human liver cancer using IMPA1 antibody at dilution of 1:100 (40x lens).



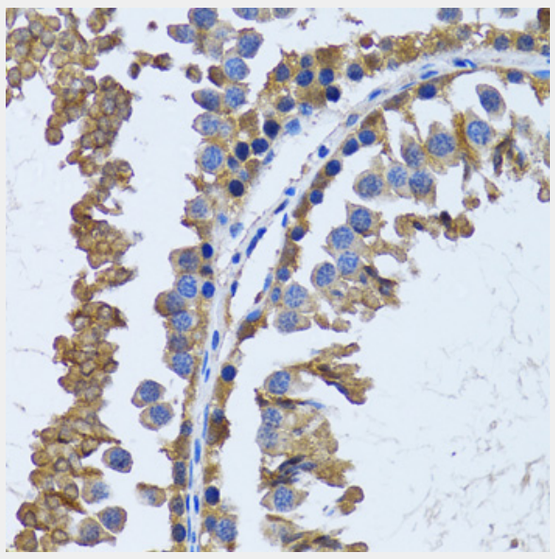
Immunohistochemistry of paraffin-embedded human colon using IMPA1 antibody at dilution of 1:100 (40x lens).



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



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



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