

anti- IMPA1 antibody

Product Information

Catalog No.:	FNab04300
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

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 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 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

Immunogen:	inositol(myo)-1(or 4)-monophosphatase 1
Synonyms:	IMPA
Observed MW:	30 kDa
UniprotID :	P29218

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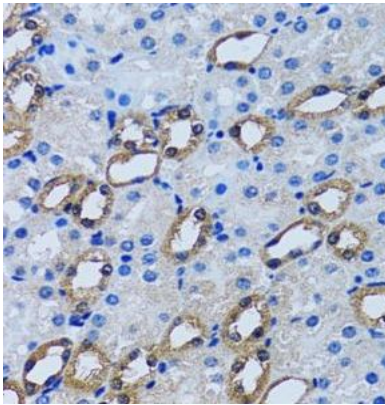
Application

Reactivity: Human, Mouse, Rat

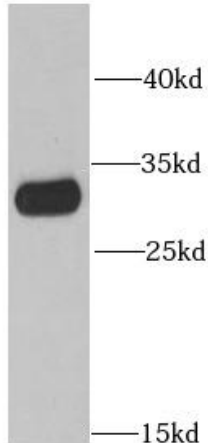
Tested Application: ELISA, WB, IHC, IF

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

Image:



Immunohistochemistry of paraffin-embedded rat kidney using FNab04300(IMPA1 antibody) at dilution of 1:100



human kidney tissue were subjected to SDS PAGE followed by western blot with FNab04300(IMPA1 antibody) at dilution of 1:1000

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