## IMPA1 Polyclonal Antibody

## Cat \#: G-AB-11056

| Host: Rabbit | Reactivity: Human, Mouse, Rat |
| :--- | :--- |
| Isotype: IgG | Clonality: |

## Overview:

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 antidepressive 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 8 q 21.13 .

Gene ID: 3612

## Accession \#:

Immunogen: Recombinant fusion protein of human IMPA1 (NP_005527.1).

Conjugation: Unconjugated

Swissprot: P29218

## Calculated Molecular Weight:

## Observed Molecular Weight:

Concentration: $1 \mathrm{mg} / \mathrm{mL}$

Buffer: PBS with 0.02\% sodium azide, 50\% glycerol, pH7.3
Purification Method: Affinity purification

Application: IHC,IF
Dilution: IHC 1:50-1:200 IF 1:10-1:100

Storage: Store at $-20^{\circ} \mathrm{C}$. Avoid freeze / thaw cycles.

