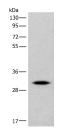
IMPA1 Polyclonal Antibody

Catalog No. E-AB-18668

Note: Centrifuge before opening to ensure complete recovery of vial contents.

| Description | |
|--------------|--|
| Reactivity | Human, Mouse, Rat |
| Immunogen | Fusion protein of human IMPA1 |
| Host | Rabbit |
| Isotype | IgG |
| Purification | Antigen affinity purification |
| Conjugation | Unconjugated |
| Buffer | PBS with 0.05% NaN3 and 40% Glycerol,pH7.4 |
| Applications | Recommended Dilution |
| WB | 1:500-1:2000 |
| IHC | 1:25-1:100 |
| Data | |





Western blot analysis of Human cerebrum tissue lysate using IMPA1 Polyclonal Antibody at dilution of 1:360 Observed Mw:Refer to figures Calculated Mw:30 kDa

Immunohistochemistry of paraffin-embedded Human liver cancer tissue using IMPA1 Polyclonal Antibody at dilution of 1:25(×200)



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using IMPA1 Polyclonal Antibody at dilution of 1:25(×200)

Preparation & Storage

For Research Use Only

Elabscience®

Storage

Store at -20°C. Avoid 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 hydroylosis and subsequent depletion of inositol for phosphatidylinositol synthesis may explain the antimanic 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.

For Research Use Only