

## Anti-IMPA1 Antibody Picoband® PE Conjugated

Catalog Number: A05882-2-PE

### About IMPA1

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.

### Overview

|                      |   |
|----------------------|---|
| Product Name         | Anti-IMPA1 Antibody Picoband® PE Conjugated   |
| Reactive Species     | Human, Mouse, Rat   |
| Application          | Recommended applications are based on the parent unconjugated antibody (ELISA, Flow Cytometry, IP, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality            | Polyclonal  |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.  |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.  |
| Host                 | Rabbit  |
| Uniprot ID           | P29218  |

### Technical Details

|               |  |
|---------------|--|
| Immunogen     | E.coli-derived human IMPA1 recombinant protein (Position: M1-D277). Human IMPA1 shares 86.6% and 85.1% amino acid (aa) sequence identity with mouse and rat IMPA1, respectively. |
| Form          | Liquid   |
| Concentration | 0.5 mg/mL  |
| Purification  | Immunogen affinity purified.   |
| Conjugate     | PE<br>Excitation Wavelength: 566 nm<br>Emission Wavelength: 574 nm   |

Suggested Dilutions

Optimal dilutions should be determined by end users.

## Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-IMPA1 Antibody - PE

For Research Use Only. Not for use in diagnostic procedures.