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anti-IMPA1 antibody



Overview	
Quantity:	100 μL
Target:	IMPA1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IMPA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human IMPA1. The
	exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	IMPA1
Alternative Name:	inositol monophosphatase 1 (IMPA1 Products)
Background:	Inositol monophosphatase 1, IMP, IMPA, MRT59, This gene encodes an enyzme 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. [provided by RefSeq]		

Molecular Weight:	30 kDa	
Gene ID:	3612	
UniProt:	P29218	

Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. Optimal dilutions/concentrations should be determined
	by the researcher. Not tested in other applications.
Comment:	Positive Control: Jurkat , Raji
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 20 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid

multiple freeze-thaw cycles.