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IMPA1 Protein (Transcript Variant 1) (Myc-DYKDDDDK Tag)



Image



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Overview			
Quantity:	20 μg		
Target:	IMPA1		
Protein Characteristics:	Transcript Variant 1		
Origin:	Human		
Source:	HEK-293 Cells		
Protein Type:	Recombinant		
Purification tag / Conjugate:	This IMPA1 protein is labelled with Myc-DYKDDDDK Tag.		
Application:	Antibody Production (AbP), Standard (STD)		
Product Details			
Characteristics:	Recombinant human Inositol monophosphatase / IMPA1 (transcript variant 1) protein		
	expressed in HEK293 cells. • Produced with end-sequenced ORF clone		
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining		
Target Details			
Target:	IMPA1		
Alternative Name:	Inositol Monophosphatase,impa1 (IMPA1 Products)		
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&apos-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.

Molecular Weight:

30 kDa

NCBI Accession:

NP_005527

Application Details

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Recombinant human proteins can be used for:

Native antigens for optimized antibody production

Positive controls in ELISA and other antibody assays

Comment:

The tag is located at the C-terminal.

Restrictions:

For Research Use only

Handling

50 µg/mL

Buffer:

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

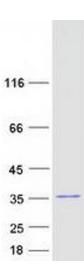
Storage:

-80 °C

Storage Comment:

Store at -80 $^{\circ}\text{C}.$ Thaw on ice, aliquot to individual single-use tubes, and then re-freeze

immediately. Only 2-3 freeze thaw cycles are recommended.



Western Blotting

Image 1. Validation with Western Blot