10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

IMPA2 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21697a

Product Information

Application	WB, E
Primary Accession	O14732
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB53375
Calculated MW	31321

Additional Information

Gene ID	3613
Other Names	Inositol monophosphatase 2, IMP 2, IMPase 2, Inositol-1(or 4)-monophosphatase 2, Myo-inositol monophosphatase A2, IMPA2, IMP18P
Target/Specificity	This IMPA2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 48-82 amino acids from human IMPA2.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	IMPA2 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IMPA2 (HGNC:6051)
Synonyms	IMP.18P
Function	Phosphatase that can use myo-inositol monophosphates, myo- inositol 1,4-diphosphate, scyllo-inositol-1,4-diphosphate, glucose-1- phosphate, beta-glycerophosphate and 2'-AMP as substrates in vitro (PubMed:17068342).

It is likely that IMPA2 has an as yet unidentified in vivo substrate(s) (PubMed:17068342). Has been implicated as the pharmacological target for lithium (Li(+)) action in brain (PubMed:17068342).

Cellular Location Cytoplasm.

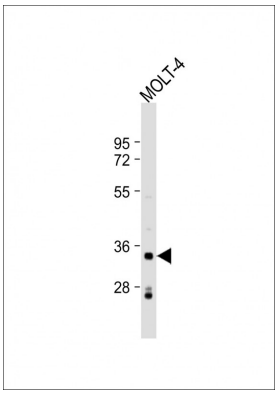
Background

Can use myo-inositol monophosphates, scylloinositol 1,4- diphosphate, glucose-1-phosphate, beta-glycerophosphate, and 2'- AMP as substrates. Has been implicated as the pharmacological target for lithium Li(+) action in brain.

References

Yoshikawa T.,et al.Mol. Psychiatry 2:393-397(1997).
Sjoeholt G.,et al.Mol. Psychiatry 5:172-180(2000).
Parthasarathy L.,et al.Submitted (OCT-1999) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Images



Anti-IMPA2 Antibody (N-Term) at 1:2000 dilution + MOLT-4 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 31 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.