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ISYNA1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21340b

Product Information

Application	WB, E
Primary Accession	Q9NPH2
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52635
Calculated MW	61068

Additional Information

Gene ID	51477
Other Names	Inositol-3-phosphate synthase 1, IPS 1, Myo-inositol 1-phosphate synthase, MI-1-P synthase, MIP synthase, hIPS, Myo-inositol 1-phosphate synthase A1, hINO1, ISYNA1, INO1
Target/Specificity	This ISYNA1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 541-574 amino acids from the C-terminal region of human ISYNA1.
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	ISYNA1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ISYNA1
Synonyms	INO1
Function	Key enzyme in myo-inositol biosynthesis pathway that catalyzes the conversion of glucose 6-phosphate to 1-myo-inositol 1- phosphate in a

	NAD-dependent manner (PubMed:15024000, PubMed:23902760). Rate-limiting enzyme in the synthesis of all inositol-containing compounds (PubMed:15024000).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:P11986}.
Tissue Location	Highly expressed in testis, ovary, heart, placenta and pancreas. Weakly expressed in blood leukocyte, thymus, skeletal muscle and colon.

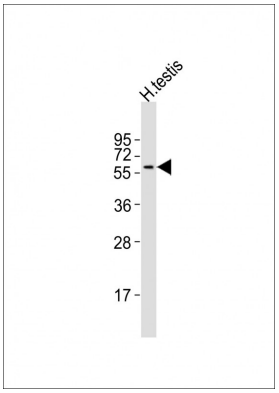
Background

Key enzyme in myo-inositol biosynthesis pathway that catalyzes the conversion of glucose 6-phosphate to 1-myo-inositol 1-phosphate in a NAD-dependent manner. Rate-limiting enzyme in the synthesis of all inositol-containing compounds.

References

Guan G.,et al.Arch. Biochem. Biophys. 417:251-259(2003).
Parthasarathy L.K.,et al.Subcell. Biochem. 39:293-314(2006).
Zhou Y.,et al.Submitted (JUL-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).

Images



Anti-ISYNA1 Antibody (C-term)at 1:2000 dilution + human testis lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 61 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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