

# ISYNA1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21340b

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q9NPH2</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB52635
<b>Calculated MW</b>	61068

## Additional Information

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<b>Gene ID</b>	51477
<b>Other Names</b>	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
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:2000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	ISYNA1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	ISYNA1
<b>Synonyms</b>	INO1
<b>Function</b>	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

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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.

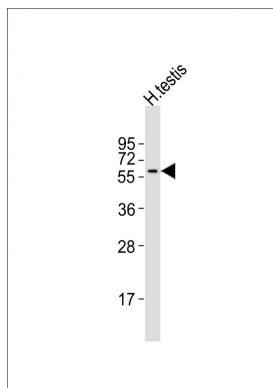
## References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).  
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## Images

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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'.