

ISYNA1 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21340b**Specification**

ISYNA1 Antibody (C-term) - Product Information

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

ISYNA1 Antibody (C-term) - 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.

ISYNA1 Antibody (C-term) - 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

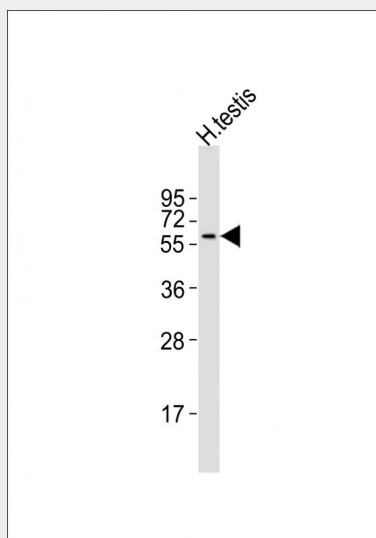
Highly expressed in testis, ovary, heart, placenta and pancreas. Weakly expressed in blood leukocyte, thymus, skeletal muscle and colon.

ISYNA1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ISYNA1 Antibody (C-term) - 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.

ISYNA1 Antibody (C-term) - 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.

ISYNA1 Antibody (C-term) - 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).
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