

ITPA Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5332**Specification**

ITPA Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	Q9BY32
Other Accession	Q2NLA8 , D3ZW55 , Q9D892 , F1NLH9 , Q2KIC5
Reactivity	Human, Mouse, Rat
Predicted	Bovine, Chicken, Xenopus
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=21,20;M=22;Rat=22 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

ITPA Antibody (N-term) - Additional Information**Gene ID** 3704**Antigen Region**
24-51**Other Names**

ITPA; C20orf37; Inosine triphosphate pyrophosphatase; Non-canonical purine NTP pyrophosphatase; Non-standard purine NTP pyrophosphatase; Nucleoside-triphosphate diphosphatase; Nucleoside-triphosphate pyrophosphatase; Putative oncogene protein hlc14-06-p

Dilution

WB~~1:1000

Target/Specificity

This ITPA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 24-51 amino acids from the N-terminal region of human ITPA.

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

ITPA Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ITPA Antibody (N-term) - Protein Information

Name ITPA {ECO:0000255|HAMAP-Rule:MF_03148}

Synonyms C20orf37

Function

Pyrophosphatase that hydrolyzes the non-canonical purine nucleotides inosine triphosphate (ITP), deoxyinosine triphosphate (dITP) as well as 2'-deoxy-N-6-hydroxylaminopurine triphosphate (dHAPTP) and xanthosine 5'-triphosphate (XTP) to their respective monophosphate derivatives. The enzyme does not distinguish between the deoxy- and ribose forms. Probably excludes non-canonical purines from RNA and DNA precursor pools, thus preventing their incorporation into RNA and DNA and avoiding chromosomal lesions.

Cellular Location

Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03148, ECO:0000269|PubMed:11278832}

Tissue Location

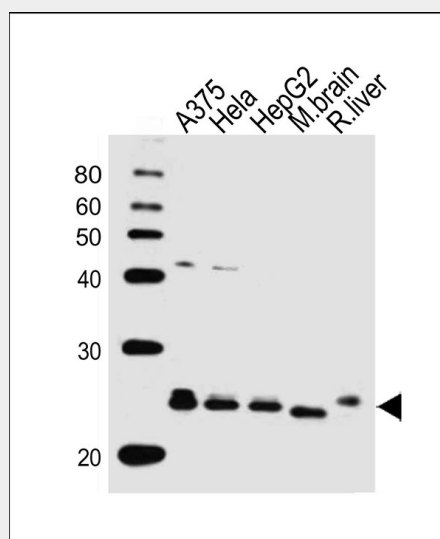
Ubiquitous. Highly expressed in heart, liver, sex glands, thyroid and adrenal gland

ITPA Antibody (N-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](#)

ITPA Antibody (N-term) - Images



Western blot analysis of lysates from A375, HeLa, HepG2 cell line, mouse brain, rat liver tissue lysate (from left to right), using ITPA Antibody (N-term) (Cat. #AW5332). AW5332 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the

secondary antibody. Lysates at 20ug per lane.

ITPA Antibody (N-term) - Background

ITPA hydrolyzes inosine triphosphate and deoxyinosine triphosphate to the monophosphate nucleotide and diphosphate. The encoded protein, which is a member of the HAM1 NTPase protein family, is found in the cytoplasm and acts as a homodimer. Defects in the encoded protein can result in inosine triphosphate pyrophosphorylase deficiency. Two transcript variants encoding two different isoforms have been found for this gene.

ITPA Antibody (N-term) - References

Fellay, J., et al. Nature 464(7287):405-408(2010)
Herting, G., et al. Biochim. Biophys. Acta 1802(2):269-274(2010)
Kudo, M., et al. Drug Metab. Pharmacokinet. 24(6):557-564(2009)