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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

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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}

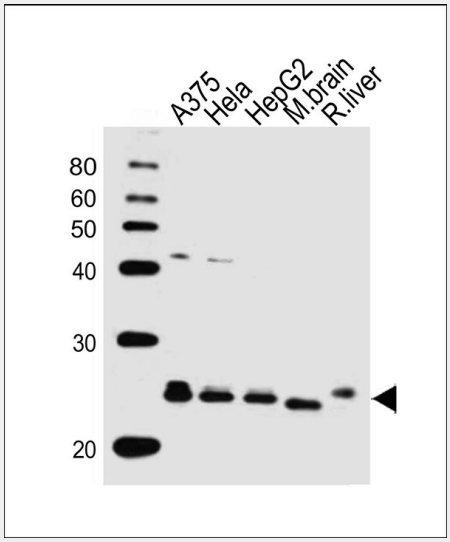
Tissue Location
Ubiquitous. Highly expressed in heart, liver, sex glands, thyroid and adrenal gland

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 Cytomety
- 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)