

# ITPA Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP18963b

## Product Information

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Application	WB, E
Primary Accession	<a href="#">Q9BY32</a>
Other Accession	<a href="#">NP_258412.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB39180
Calculated MW	21446
Antigen Region	149-178

## Additional Information

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Gene ID	3704
Other Names	Inosine triphosphate pyrophosphatase {ECO:0000255 HAMAP-Rule:MF_03148}, ITPase {ECO:0000255 HAMAP-Rule:MF_03148}, Inosine triphosphatase {ECO:0000255 HAMAP-Rule:MF_03148}, 36119 {ECO:0000255 HAMAP-Rule:MF_03148}, Non-canonical purine NTP pyrophosphatase {ECO:0000255 HAMAP-Rule:MF_03148}, Non-standard purine NTP pyrophosphatase {ECO:0000255 HAMAP-Rule:MF_03148}, Nucleoside-triphosphate diphosphatase {ECO:0000255 HAMAP-Rule:MF_03148}, Nucleoside-triphosphate pyrophosphatase {ECO:0000255 HAMAP-Rule:MF_03148}, NTPase {ECO:0000255 HAMAP-Rule:MF_03148}, Putative oncogene protein hlc14-06-p, ITPA {ECO:0000255 HAMAP-Rule:MF_03148}, C20orf37
Target/Specificity	This ITPA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 149-178 amino acids from the C-terminal region of human ITPA.
Dilution	WB~~1:1000 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	ITPA Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

<b>Name</b>	ITPA {ECO:0000255   HAMAP-Rule:MF_03148}
<b>Synonyms</b>	C20orf37
<b>Function</b>	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.
<b>Cellular Location</b>	Cytoplasm {ECO:0000255   HAMAP-Rule:MF_03148, ECO:0000269   PubMed:11278832}
<b>Tissue Location</b>	Ubiquitous. Highly expressed in heart, liver, sex glands, thyroid and adrenal gland

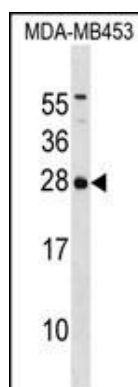
## Background

The protein encoded by this gene 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. Also, at least two other transcript variants have been identified which are probably regulatory rather than protein-coding.

## References

Kim, J.H., et al. J. Clin. Gastroenterol. 44 (10), E242-E248 (2010) :  
Ochi, H., et al. Gastroenterology 139(4):1190-1197(2010)  
Thompson, A.J., et al. Gastroenterology 139(4):1181-1189(2010)  
Ban, H., et al. J. Gastroenterol. 45(10):1014-1021(2010)  
Fellay, J., et al. Nature 464(7287):405-408(2010)

## Images



ITPA Antibody (C-term) (Cat. #AP18963b) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the ITPA antibody detected the ITPA protein (arrow).

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