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ITPA Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP18963b

Specification

ITPA Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9BY32

ITPA Antibody (C-term) Blocking Peptide - Additional Information

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ITPA Antibody (C-term) Blocking Peptide - 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 (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

ITPA Antibody (C-term) Blocking Peptide - Images

ITPA Antibody (C-term) Blocking Peptide - Background

The protein encoded by this gene hydrolyzes inosinetriphosphate and deoxyinosine triphosphate to the monophosphatenucleotide and diphosphate. The encoded protein, which is a memberof the HAM1 NTPase protein family, is found in the cytoplasm andacts as a homodimer. Defects in the encoded protein can result ininosine triphosphate pyrophosphorylase deficiency. Two transcriptvariants encoding two different isoforms have been found for thisgene. Also, at least two other transcript variants have beenidentified which are probably regulatory rather thanprotein-coding.

ITPA Antibody (C-term) Blocking Peptide - 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)