

ITPA Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP4942a**Specification**

ITPA Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9BY32](#)**ITPA Antibody (N-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 (N-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 (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ITPA Antibody (N-term) Blocking Peptide - Images**ITPA Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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)