

NT5C2 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12235a**Specification**

NT5C2 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [P49902](#)**NT5C2 Antibody (N-term) Blocking peptide - Additional Information**

Gene ID 22978

Other Names

Cytosolic purine 5'-nucleotidase, Cytosolic 5'-nucleotidase II, NT5C2, NT5B, NT5CP, PNT5

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.

NT5C2 Antibody (N-term) Blocking peptide - Protein InformationName NT5C2 ([HGNC:8022](#))

Synonyms NT5B, NT5CP, PNT5

Function

Broad specificity cytosolic 5'-nucleotidase that catalyzes the dephosphorylation of 6-hydroxypurine nucleoside 5'-monophosphates (PubMed: [1659319](http://www.uniprot.org/citations/1659319), PubMed: [9371705](http://www.uniprot.org/citations/9371705), PubMed: [10092873](http://www.uniprot.org/citations/10092873), PubMed: [12907246](http://www.uniprot.org/citations/12907246)). In addition, possesses a phosphotransferase activity by which it can transfer a phosphate from a donor nucleoside monophosphate to an acceptor nucleoside, preferably inosine, deoxyinosine and guanosine (PubMed: [1659319](http://www.uniprot.org/citations/1659319), PubMed: [9371705](http://www.uniprot.org/citations/9371705)). Has the highest activities for IMP and GMP followed by dIMP, dGMP and XMP (PubMed: [1659319](http://www.uniprot.org/citations/1659319), PubMed: [9371705](http://www.uniprot.org/citations/9371705), PubMed: [10092873](http://www.uniprot.org/citations/10092873), PubMed: [12907246](http://www.uniprot.org/citations/12907246)). Could also catalyze the transfer of phosphates from pyrimidine monophosphates but with lower efficiency

(PubMed:1659319, PubMed:9371705). Through these activities regulates the purine nucleoside/nucleotide pools within the cell (PubMed:1659319, PubMed:9371705, PubMed:10092873, PubMed:12907246).

Cellular Location

Cytoplasm, cytosol.

Tissue Location

Widely expressed..

NT5C2 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

NT5C2 Antibody (N-term) Blocking peptide - Images**NT5C2 Antibody (N-term) Blocking peptide - Background**

Purine 5-prime-nucleotidase (EC 3.1.3.5) preferentially hydrolyzes inosine 5-prime-monophosphate (IMP) and other purine nucleotides, and is allosterically activated by various compounds, including ATP. The enzyme is exclusively located in the cytoplasmic matrix of cells and may have a critical role in the maintenance of a constant composition of intracellular purine/pyrimidine nucleotides in cooperation with other nucleotidases.[supplied by OMIM].

NT5C2 Antibody (N-term) Blocking peptide - References

Niu, W., et al. Clin. Chim. Acta 411 (19-20), 1491-1495 (2010) :Yamauchi, T., et al. Biochem. Pharmacol. 77(12):1780-1786(2009) Newton-Cheh, C., et al. Nat. Genet. (2009) In press :Venkatesan, K., et al. Nat. Methods 6(1):83-90(2009) Jordheim, L.P., et al. Drug Metab. Dispos. 36(12):2419-2423(2008)