

**NT5C2 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12235a****Specification**

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**NT5C2 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P49902</a>
Other Accession	<a href="#">Q3V1L4</a> , <a href="#">O46411</a> , <a href="#">NP_036361.1</a> , <a href="#">D3ZMY7</a>
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	64970
Antigen Region	5-33

**NT5C2 Antibody (N-term) - Additional Information****Gene ID** 22978**Other Names**

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

**Target/Specificity**

This NT5C2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 5-33 amino acids from the N-terminal region of human NT5C2.

**Dilution**

WB~~1:1000

**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**

NT5C2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**NT5C2 Antibody (N-term) - Protein Information****Name** 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](#), PubMed:[9371705](#), PubMed:[10092873](#), PubMed:[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](#), PubMed:[9371705](#)). Has the highest activities for IMP and GMP followed by dIMP, dGMP and XMP (PubMed:[1659319](#), PubMed:[9371705](#), PubMed:[10092873](#), PubMed:[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.

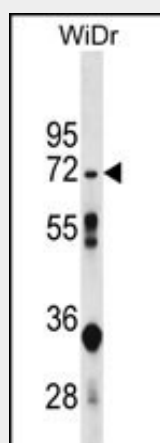
**Tissue Location**

Widely expressed..

**NT5C2 Antibody (N-term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**NT5C2 Antibody (N-term) - Images**

NT5C2 Antibody (N-term) (Cat. #AP12235a) western blot analysis in WiDr cell line lysates (35ug/lane). This demonstrates the NT5C2 antibody detected the NT5C2 protein (arrow).

**NT5C2 Antibody (N-term) - 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) - 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)  
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