10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NT5C3 Rabbit pAb

Catalog # AP99195

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H0P0
Other Accession	Q9H0P0
Reactivity	Human
Predicted	Rat, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37948
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NT5C3
Epitope Specificity	1-100/336
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
DISEASE	Autosomal recessive condition causing hemolytic anemia characterized by marked basophilic stippling and the accumulation of high concentrations of pyrimidine nucleotides within the erythrocyte. It is implicated in the anemia of lead poisoning and is possibly associated with learning difficulties.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the 5'-nucleotidase family of enzymes that catalyze the dephosphorylation of nucleoside 5'-monophosphates. The encoded protein is the type 1 isozyme of pyrimidine 5' nucleotidase and catalyzes the dephosphorylation of pyrimidine 5' monophosphates. Mutations in this gene are a cause of hemolytic anemia due to uridine 5-prime monophosphate hydrolase deficiency. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and pseudogenes of this gene are located on the long arm of chromosomes 3 and 4. [provided by RefSeq, Mar 2012]

Additional Information

Gene ID	51251
Other Names	CNSHA8; NT5C3; P5'N-1; P5N-1; PN-I; POMP; PSN1; UMPH; UMPH1; cN-III; hUMP1; p36; 1600024P05Rik; 2610206B05Rik; 3110004A18Rik; Nt5c3a; Nt5y; PN-1; Umph-1; lupin; 5NT3A_HUMAN; 7-methylguanosine phosphate-specific 5'-nucleotidase (7-methylguanosine nucleotidase); Cytosolic 5'-nucleotidase 3; Cytosolic 5'-nucleotidase III (cN-III); Pyrimidine 5'-nucleotidase 1 (P5'N-1 | P5N-1 | PN-I); Uridine 5'-monophosphate hydrolase 1; 3.1.3.5; P5N1; 5NT3A_MOUSE; 5'-nucleotidase, cytosolic IIIA; cytosolic 5'-nucleotidase 3A
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NT5C3A
Synonyms	NT5C3, P5N1, UMPH1
Function	Nucleotidase which shows specific activity towards cytidine monophosphate (CMP) and 7-methylguanosine monophosphate (m(7)GMP) (PubMed:24603684). CMP seems to be the preferred substrate (PubMed:15968458).
Cellular Location	Cytoplasm.
Tissue Location	Isoforms 1, 3 and 4 are expressed in reticulocytes. Isoform 4 is hardly detectable in bone marrow and fetal liver

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