



NT5C3 Monoclonal Antibody

Catalog No	YP-mAb-13955
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	NT5C3
Immunogen	The antiserum was produced against synthesized peptide derived from human NT5C3. AA range:11-60
Specificity	NT5C3 Monoclonal Antibody detects endogenous levels of NT5C3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	5' nucleotidase;cytosolic III;cN III;Cytosolic 5 nucleotidase 3;Cytosolic 5 nucleotidase III;NT5C3;p36;P5N 1;P5'N 1;P5N1;PN I;PSN1;Pyrimidine 5 nucleotidase 1;UMPH;UMPH1;Cytosolic 5'-nucleotidase 3;HSPC233;Cytosolic 5'-nucleotidase III;cN-III;Pyrimidine 5'-nucleotidase 1;P5'N-1;P5N-1;PN-I;Uridine 5'-monophosphate hydrolase 1
Observed Band	38kD
Calculated Molecular Weight	38kD
Cell Pathway	Cytoplasm .; [Isoform 2]: Endoplasmic reticulum.
Tissue Specificity	Isoforms 1, 3 and 4 are expressed in reticulocytes. Isoform 4 is hardly detectable in bone marrow and fetal liver.
Function	catalytic activity:A 5'-ribonucleotide + H(2)O = a ribonucleoside + phosphate., disease:Defects in NT5C3 are the cause of P5N deficiency [MIM:266120]; also called hemolytic anemia due to P5N deficiency or hemolytic anemia due to UMPH1 deficiency. P5N deficiency is an 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.,function:Can act both as nucleotidase and as phosphotransferase.,induction:Isoform 2 is induced by interferon alpha in Raji cells in association with lupus inclusions.,similarity:Belongs to the pyrimidine 5'-nucleotidase family.,subunit:Monomer.,tissue specificity:Isoform 1 and isoform 3 are expressed in reticulocytes and lymphocytes.

Background

5'-nucleotidase, cytosolic IIIA(NT5C3A) Homo sapiens 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],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

