Product Name: NT5C3 Rabbit Polyclonal Antibody
Catalog #: APRab14920

Summary

Production Name	NT5C3 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,WB,ELISA
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	NT5C3
Alternative Names	NT5C3; P5N1; UMPH1; HSPC233; 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; p36
Gene ID	51251.0
SwissProt ID	Q9H0P0.The antiserum was produced against synthesized peptide derived from human NT5C3. AA range:11-60

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000. Not yet tested in other applications.

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Molecular Weight 38kD

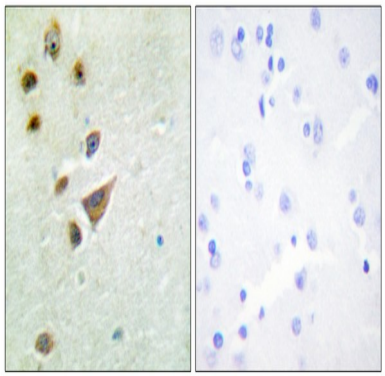
Background

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],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 stipplig 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. Isoform 4 is expressed only in reticulocytes.,

Research Area

Purine metabolism;Pyrimidine metabolism;Nicotinate and nicotinamide metabolism;

Image Data



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using NT5C3 Antibody. The picture on the right is blocked with the synthesized peptide.

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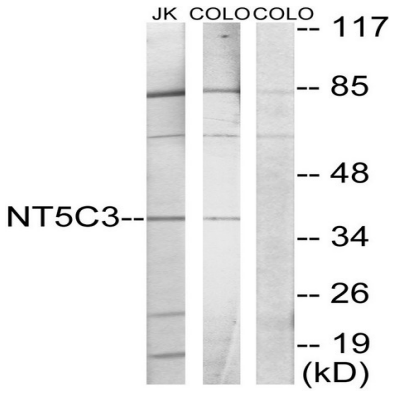
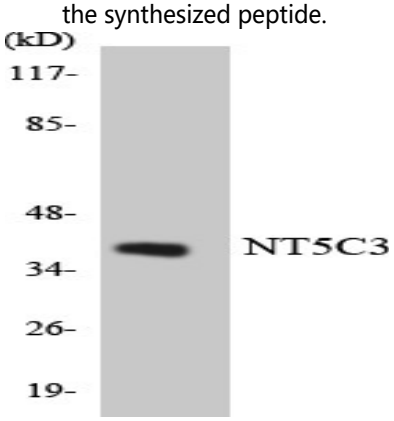


Western blot analysis of lysates from Jurkat and COLO205 cells, using NT5C3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from 293 cells using NT5C3 antibody.

Note

For research use only.