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**Product Name: NT5C3 Rabbit Polyclonal Antibody****Catalog #: APRab14920**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:20000-1:40000
<b>Molecular Weight</b>	38kDa

**Antigen Information**

<b>Gene Name</b>	NT5C3 NT5C3; P5N1; UMPH1; HSPC233; Cytosolic 5'-nucleotidase 3; Cytosolic 5'-nucleotidase III;
<b>Alternative Names</b>	cN-III; Pyrimidine 5'-nucleotidase 1; P5'N-1; P5N-1; PN-I; Uridine 5'-monophosphate hydrolase 1; p36
<b>Gene ID</b>	51251.0
<b>SwissProt ID</b>	Q9H0P0
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human NT5C3. AA range:11-60

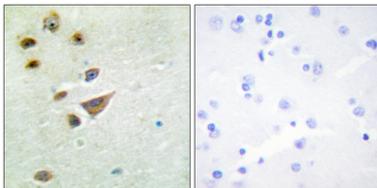
## Background

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 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. Isoform 4 is expressed only in reticulocytes.,

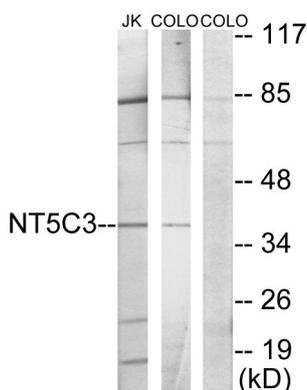
## Research Area

Purine metabolism;Pyrimidine metabolism;Nicotinate and nicotinamide metabolism;

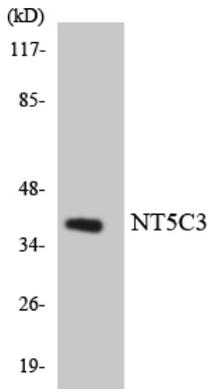
## Image Data



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



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.