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NT5M Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22117c

Product Information

Application	WB, E
Primary Accession	Q9NPB1
Reactivity	Human, Mouse
Predicted	Rat, Bovine
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB55099
Calculated MW	25862

Additional Information

Gene ID	56953
Other Names	5'(3')-deoxyribonucleotidase, mitochondrial, 5', 3'-nucleotidase, mitochondrial, 3.1.3.-, Deoxy-5'-nucleotidase 2, dNT-2, NT5M, DNT2
Target/Specificity	This NT5M antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 59-90 amino acids from the Central region of human NT5M.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
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	NT5M Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NT5M
Synonyms	DNT2
Function	Dephosphorylates preferentially the 5'- and 2'(3')-phosphates of uracil and thymine (deoxy)ribonucleotide monophosphates (PubMed:10899995,

PubMed:16004879). Shows low activity toward dGMP and marginal activity toward dIMP (PubMed:10899995, PubMed:16004879).

Cellular Location Mitochondrion.

Tissue Location Highly expressed in heart, brain and skeletal muscle. Detected at very low levels in kidney and pancreas

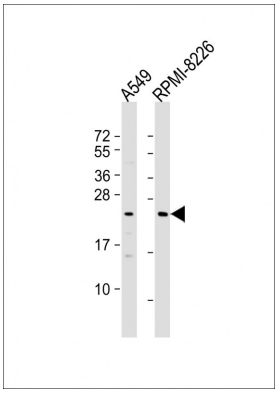
Background

Dephosphorylates specifically the 5' and 2'(3')- phosphates of uracil and thymine deoxyribonucleotides, and so protects mitochondrial DNA replication from excess dTTP. Has only marginal activity towards dIMP and dGMP.

References

Rampazzo C.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:8239-8244(2000).
Rinaldo-Matthis A.,et al.Nat. Struct. Biol. 9:779-787(2002).

Images



All lanes : Anti-NT5M Antibody (Center) at 1:2000 dilution Lane 1: A549 whole cell lysate Lane 2: RPMI-8226 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 26 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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