

NUDT2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP16121c

Product Information

Application	WB, E
Primary Accession	P50583
Other Accession	NP_671702.1 , NP_671701.1
Reactivity	Human
Predicted	Mouse, Rat, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35251
Calculated MW	16829
Antigen Region	62-90

Additional Information

Gene ID	318
Other Names	Bis(5'-nucleosyl)-tetrphosphatase [asymmetrical], Diadenosine 5', 5'''-P1, P4-tetrphosphate asymmetrical hydrolase, Ap4A hydrolase, Ap4Aase, Diadenosine tetrphosphatase, Nucleoside diphosphate-linked moiety X motif 2, Nudix motif 2, NUDT2, APAH1
Target/Specificity	This NUDT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 62-90 amino acids from the Central region of human NUDT2.
Dilution	WB~~1:1000 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	NUDT2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NUDT2
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Synonyms

APAH1

Function

Catalyzes the asymmetric hydrolysis of diadenosine 5',5'''-P1,P4-tetraphosphate (Ap4A) to yield AMP and ATP (By similarity). Exhibits decapping activity towards FAD-capped RNAs and dpCoA-capped RNAs in vitro (By similarity).

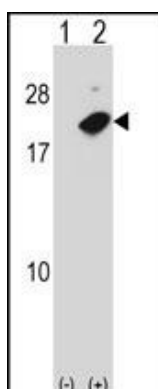
Background

This gene encodes a member of the MutT family of nucleotide pyrophosphatases, a subset of the larger NUDIX hydrolase family. The gene product possesses a modification of the MutT sequence motif found in certain nucleotide pyrophosphatases. The enzyme asymmetrically hydrolyzes Ap4A to yield AMP and ATP and is responsible for maintaining the intracellular level of the dinucleotide Ap4A, the function of which has yet to be established. This gene may be a candidate tumor suppressor gene. Alternative splicing has been observed at this locus and three transcript variants, all encoding the same protein, have been identified.

References

Vasilenko, N., et al. Virol. J. 7, 31 (2010) :
Swarbrick, J.D., et al. J. Biol. Chem. 280(9):8471-8481(2005)
Swarbrick, J.D., et al. J. Biomol. NMR 31(2):181-182(2005)
Pitcher, W.H. III, et al. Antiviral Res. 58(3):227-233(2003)
Guranowski, A., et al. Acta Biochim. Pol. 50(1):123-130(2003)

Images



Western blot analysis of NUDT2 (arrow) using rabbit polyclonal NUDT2 Antibody (Center) (Cat. #AP16121c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the NUDT2 gene.

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