

NUDT4 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17167a

Specification

NUDT4 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	Q9NZJ9
Other Accession	Q99MY2 , Q8R2U6 , NP_950241.1 , A0A024RBG1
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	20306
Antigen Region	1-30

NUDT4 Antibody (N-term) - Additional Information

Gene ID 11163

Other Names

Diphosphoinositol polyphosphate phosphohydrolase 2, DIPP-2, Diadenosine 5', 5'''-P1, P6-hexaphosphate hydrolase 2, 361-, Nucleoside diphosphate-linked moiety X motif 4, Nudix motif 4, NUDT4, DIPP2, KIAA0487

Target/Specificity

This NUDT4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human NUDT4.

Dilution

WB~~1:1000

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

NUDT4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

NUDT4 Antibody (N-term) - Protein Information

Name NUDT4 ([HGNC:8051](#))

Synonyms DIPP2, KIAA0487

Function Cleaves a beta-phosphate from the diphosphate groups in PP-InsP5 (diphosphoinositol pentakisphosphate), PP-InsP4 and [PP]2-InsP4 (bisdiphosphoinositol tetrakisphosphate), suggesting that it may play a role in signal transduction (PubMed:[10777568](#), PubMed:[12370170](#)). Can also catalyze the hydrolysis of diadenosine 5',5'''-P1,P6-hexaphosphate (Ap6A) but not diadenosine 5',5'''-P1,P5-pentaphosphate (Ap5A) and the major reaction products are ADP and p4a from Ap6A (PubMed:[12370170](#)). Also able to hydrolyze 5-phosphoribose 1-diphosphate (PubMed:[12370170](#)). Does not play a role in U8 snoRNA decapping activity (By similarity). Binds U8 snoRNA (By similarity).

Cellular Location

Cytoplasm.

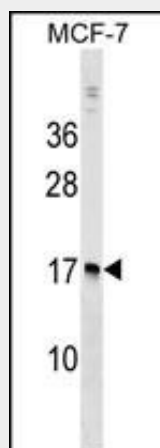
Tissue Location

Expressed in heart and, at lower level in skeletal muscle, pancreas and kidney.

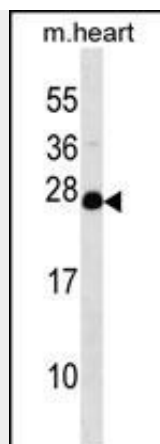
NUDT4 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NUDT4 Antibody (N-term) - Images

NUDT4 Antibody (N-term) (Cat. #AP17167a) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the NUDT4 antibody detected the NUDT4 protein (arrow).



NUDT4 Antibody (N-term) (Cat. #AP17167a) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the NUDT4 antibody detected the NUDT4 protein (arrow).

NUDT4 Antibody (N-term) - Background

The protein encoded by this gene regulates the turnover of diphosphoinositol polyphosphates. The turnover of these high-energy diphosphoinositol polyphosphates represents a molecular switching activity with important regulatory consequences. Molecular switching by diphosphoinositol polyphosphates may contribute to regulating intracellular trafficking. Several alternatively spliced transcript variants have been described, but the full-length nature of some variants has not been determined. Isoforms DIPP2alpha and DIPP2beta are distinguishable from each other solely by DIPP2beta possessing one additional amino acid due to intron boundary skidding in alternate splicing.

NUDT4 Antibody (N-term) - References

Fortna, A., et al. PLoS Biol. 2 (7), E207 (2004) :
Fisher, D.I., et al. J. Biol. Chem. 277(49):47313-47317(2002)
Leslie, N.R., et al. BMC Biochem. 3, 20 (2002) :
Caffrey, J.J., et al. Gene 269 (1-2), 53-60 (2001) :
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