10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

NUDT4 Antibody (N-term) - Protein Information

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Name NUDT4 (HGNC:8051)

Synonyms DIPP2, KIAA0487

Function Cleaves the beta-phosphate from diphosphoinositol polyphosphates such as PP-InsP5 (diphosphoinositol pentakisphosphate), PP-InsP4 (diphosphoinositol tetrakisphosphate) and [PP]2-InsP4 (bisdiphosphoinositol tetrakisphosphate), suggesting that it may play a role in signal transduction (PubMed:10777568). Diadenosine polyphosphates, particularly Ap6A (P(1),P(6)-bis(5a-adenosyl) hexaphosphate) and Ap5A (P(1),P(5)-bis(5'-adenosyl) pentaphosphate) are downstream effectors of a signaling cascade that regulates cardiac KATP channels, can also be substrates, although with lower preference than the diphosphoinositol polyphosphates (PubMed:10777568). Can also catalyze the hydrolysis of 5-phosphoribose 1-diphosphate, generating the glycolytic activator ribose 1,5-bisphosphate (PubMed:12370170). Does not play a role in U8 snoRNA decapping activity (By similarity). Binds U8 snoRNA (By similarity).

Cellular Location
Cytoplasm.

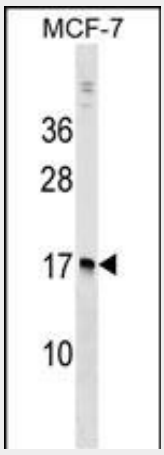
Tissue Location
Expressed in heart and, at lower level in skeletal muscle, pancreas and kidney.

NUDT4 Antibody (N-term) - Protocols

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

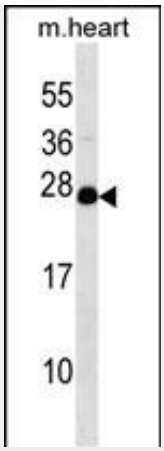
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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) :
Caffrey, J.J., et al. J. Biol. Chem. 275(17):12730-12736(2000)