

NUDT4 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP17167a**Specification**

NUDT4 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O9NZJ9](#)**NUDT4 Antibody (N-term) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NUDT4 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NUDT4 Antibody (N-term) Blocking Peptide - Images**NUDT4 Antibody (N-term) Blocking Peptide - 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 skipping in alternate splicing.

NUDT4 Antibody (N-term) Blocking Peptide - 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)