

NUDT3 Antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI15627**Specification**

NUDT3 Antibody - middle region - Product Information

Application	WB
Primary Accession	O95989
Other Accession	NM_006703 , NP_006694
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	19kDa KDa

NUDT3 Antibody - middle region - Additional Information**Gene ID** 11165**Alias Symbol** **DIPP, DIPP-1, DIPP1****Other Names**

Diphosphoinositol polyphosphate phosphohydrolase 1, DIPP-1, 3.6.1.52, Diadenosine 5', 5'''-P1, P6-hexaphosphate hydrolase 1, 3.6.1.-, Nucleoside diphosphate-linked moiety X motif 3, Nudix motif 3, NUDT3, DIPP, DIPP1

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-NUDT3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

NUDT3 Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

NUDT3 Antibody - middle region - Protein Information**Name** NUDT3 ([HGNC:8050](#))**Synonyms** DIPP, DIPP1**Function**

Cleaves a beta-phosphate from the diphosphate groups in PP- InsP5 (diphosphoinositol pentakisphosphate) and [PP]2-InsP4 (bisdiphosphoinositol tetrakisphosphate), suggesting that it may play a role in signal transduction (PubMed:<a

[10585413](http://www.uniprot.org/citations/10585413), PubMed: [12370170](http://www.uniprot.org/citations/12370170), PubMed: [9822604](http://www.uniprot.org/citations/9822604)). InsP6 (inositol hexakisphosphate) is not a substrate (PubMed: [9822604](http://www.uniprot.org/citations/9822604)). Acts as a negative regulator of the ERK1/2 pathway (By similarity). Also able to catalyze the hydrolysis of dinucleoside oligophosphates, with diadenosine 5',5'''-P1,P6-hexaphosphate (Ap6A) and diadenosine 5',5'''-P1,P5-pentaphosphate (Ap5A) being the preferred substrates (PubMed: [10419486](http://www.uniprot.org/citations/10419486), PubMed: [12370170](http://www.uniprot.org/citations/12370170)). The major reaction products are ADP and p4a from Ap6A and ADP and ATP from Ap5A (PubMed: [12370170](http://www.uniprot.org/citations/12370170)). Also able to hydrolyze 5-phosphoribose 1-diphosphate (PubMed: [12370170](http://www.uniprot.org/citations/12370170)). Acts as a decapping enzyme that modulates the stability of a subset of mRNAs implicated in cell motility (PubMed: [26932476](http://www.uniprot.org/citations/26932476)). Hydrolyzes monomethylated capped RNA after both the alpha- and beta-phosphates generating m7GMP + ppRNA and m7GDP + pRNA (PubMed: [32727897](http://www.uniprot.org/citations/32727897)). Can hydrolyze unmethylated capped RNAs (By similarity). Divalent cations zinc, magnesium and manganese determine its substrate specificity (PubMed: [34788624](http://www.uniprot.org/citations/34788624)). Exhibits diphosphoinositol polyphosphate phosphohydrolase in the presence of magnesium ions, diadenosine hexaphosphate hydrolase activity in the presence of manganese ions and endopolyphosphatase activity in the presence of zinc ions (PubMed: [34788624](http://www.uniprot.org/citations/34788624)). Plays an important role in limiting DNA damage and maintaining cell survival upon oxidative stress via its endopolyphosphatase activity (PubMed: [34788624](http://www.uniprot.org/citations/34788624)).

Cellular Location

Cytoplasm. Nucleus

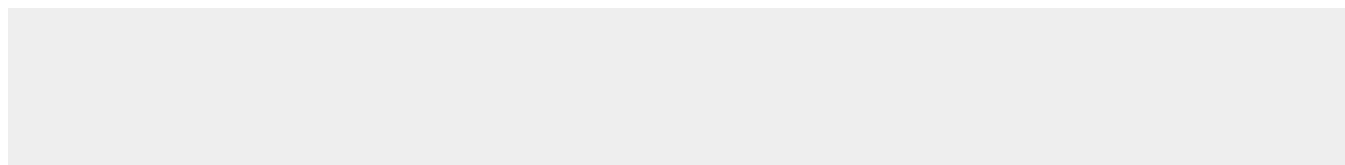
Tissue Location

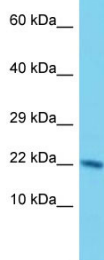
Widely expressed. Expressed at higher level in brain, heart, pancreas and liver. Also expressed in placenta, lung and kidney.

NUDT3 Antibody - middle region - 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](#)

NUDT3 Antibody - middle region - Images



Host: Rabbit

Target Name: NUDT3

Sample Tissue: Hela Whole cell lysate

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Antibody Dilution: 1.0µg/ml NUDT3 is supported by BioGPS gene expression data to be expressed in HeLa

NUDT3 Antibody - middle region - References

Safrany S.T., et al. EMBO J. 17:6599-6607(1998).

Kalnine N., et al. Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.

Ota T., et al. Nat. Genet. 36:40-45(2004).

Mungall A.J., et al. Nature 425:805-811(2003).

Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.