



Rabbit Anti-NUDT10 antibody

SL19508R

Product Name:	NUDT10
Chinese Name:	NUDT10蛋白抗体
Alias:	NUD10_HUMAN; Diphosphoinositol polyphosphate phosphohydrolase 3-alpha; DIPP-3-alpha; DIPP3-alpha; hDIPP3alpha; Diadenosine 5',5'''-P1,P6-hexaphosphate hydrolase 3-alpha; AltName: Diadenosine hexaphosphate hydrolase (AMP-forming); AltName: Nucleoside diphosphate-linked moiety X motif 10; Nudix motif 10; hAps2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	18kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NUDT10:51-120/164
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	NUDT10 belongs to a subgroup of phosphohydrolases that preferentially attack diphosphoinositol polyphosphates (Hidaka et al., 2002 [PubMed 12105228]).[supplied by OMIM, Mar 2008]

Function:

Cleaves a beta-phosphate from the diphosphate groups in PP-InsP5 (diphosphoinositol pentakisphosphate), suggesting that it may play a role in signal transduction. Also able to catalyze the hydrolysis of dinucleoside oligophosphates, with Ap6A and Ap5A being the preferred substrates. The major reaction products are ADP and p4a from Ap6A and ADP and ATP from Ap5A. Also able to hydrolyze 5-phosphoribose 1-diphosphate.

Subcellular Location:

Cytoplasm.

Tissue Specificity:

Mainly expressed in testis and, at lower level in brain. According to PubMed:12121577, it is widely expressed.

Similarity:

Belongs to the Nudix hydrolase family. DIPP subfamily. Contains 1 nudix hydrolase domain.

SWISS:

Q8NFP7

Gene ID:

170685

Database links:

[Entrez Gene: 170685](#) Human

[Entrez Gene: 616931](#) Cow

[Entrez Gene: 102954](#) Mouse

[Entrez Gene: 58242](#) Mouse

[Entrez Gene: 367747](#) Rat

[Omim: 300527](#) Human

[SwissProt: Q58CW0](#) Cow

[SwissProt: Q8NFP7](#) Human

[SwissProt: P0C027](#) Mouse

[Unigene: 375178](#) Human

[Unigene: 41198](#) Mouse

[Unigene: 426101](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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