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NUDT18 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI12963

Product Information

Application	WB
Primary Accession	Q6ZVK8
Other Accession	NM_024815, NP_079091
Reactivity	Human, Mouse, Rat, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Rat, Rabbit, Pig, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35501

Additional Information

Gene ID	79873
Alias Symbol	FLJ22494
Other Names	8-oxo-dGDP phosphatase NUDT18, 3.6.1.58, 2-hydroxy-dADP phosphatase, 7, 8-dihydro-8-oxoguanine phosphatase, MutT homolog 3, Nucleoside diphosphate-linked moiety X motif 18, Nudix motif 18, NUDT18, MTH3
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-NUDT18 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	NUDT18 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

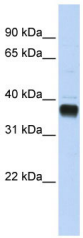
Name	NUDT18 (HGNC:26194)
Function	Mediates the hydrolysis of oxidized nucleoside diphosphate derivatives. Hydrolyzes 8-oxo-7,8-dihydroguanine (8-oxo-Gua)-containing deoxyribo- and ribonucleoside diphosphates to the monophosphates. Hydrolyzes 8-oxo-dGDP and 8-oxo-GDP with the same efficiencies. Also hydrolyzes 8-OH-dADP and 2-OH-dADP. Exhibited no or minimal hydrolysis activity against 8-oxo-dGTP, 8-oxo-GTP, dGTP, GTP, dGDP and GDP. Probably removes oxidized guanine nucleotides from both the DNA and RNA precursor pools. In vitro, it catalyzes the hydrolysis of isoprene pyrophosphates, including (2E)-geranyl diphosphate, isopentenyl diphosphate, (2E,6E)-farnesyl

diphosphate and dimethylallyl diphosphate (PubMed:38944687). It may therefore play a role in the control of cellular levels of these metabolites that are essential for multiple cellular processes, including isoprenoids synthesis and protein isoprenylation (Probable).

References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nusbaum C.,et al.Nature 439:331-335(2006).
Takagi Y.,et al.J. Biol. Chem. 287:21541-21549(2012).

Images



WB Suggested Anti-NUDT18 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: Transfected 293T

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.