

Nudt15 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI12948

Product Information

| | |
|--------------------------|---|
| Application | WB |
| Primary Accession | Q8BG93 |
| Other Accession | NM_172527 , NP_766115 |
| Reactivity | Human, Mouse, Rat, Rabbit, Zebrafish, Dog, Guinea Pig, Horse, Bovine, Yeast |
| Predicted | Mouse, Rat, Zebrafish, Chicken, Dog, Guinea Pig |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 19576 |

Additional Information

| | |
|---|--|
| Gene ID | 214254 |
| Alias Symbol Other Names | 6530403O17, A730068G11Rik, MTH2 Probable 8-oxo-dGTP diphosphatase NUDT15, 8-oxo-dGTPase NUDT15, 3.6.1.55, 7, 8-dihydro-8-oxoguanine-triphosphatase NUDT15, MutT homolog 2, mMTH2, Nucleoside diphosphate-linked moiety X motif 15, Nudix motif 15, Nudt15, Mth2 |
| 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-Nudt15 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 | Nudt15 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

| | |
|-----------------|--|
| Name | Nudt15 {ECO:0000312 MGI:MGI:2443366} |
| Function | Catalyzes the hydrolysis of nucleoside triphosphates including dGTP, dTTP, dCTP, their oxidized forms like 8-oxo-dGTP and the prodrug thiopurine derivatives 6-thio-dGTP and 6-thio-GTP (PubMed: 12767940). Could also catalyze the hydrolysis of some nucleoside diphosphate derivatives (By similarity). Hydrolyzes oxidized nucleosides triphosphates like 8-oxo-dGTP in vitro, but the specificity and efficiency towards these substrates are low. Therefore, the potential in vivo sanitizing role of this enzyme, that would consist in removing oxidatively damaged forms of nucleosides to prevent |

their incorporation into DNA, is unclear (PubMed:[12767940](#)). Through the hydrolysis of thioguanosine triphosphates may participate in the catabolism of thiopurine drugs (By similarity). May also have a role in DNA synthesis and cell cycle progression by stabilizing PCNA (By similarity). Exhibits decapping activity towards dpCoA-capped RNAs in vitro (PubMed:[32432673](#)). In vitro, it catalyzes the hydrolysis of isoprene pyrophosphates, including (2E)-geranyl diphosphate, isopentenyl diphosphate, (2E,6E)-farnesyl diphosphate and dimethylallyl diphosphate. 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 (By similarity).

Images



WB Suggested Anti-Nudt15 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Small Intestine

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