

Anti-NUDT1 / MTH1 Antibody
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17760**Specification**

Anti-NUDT1 / MTH1 Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	P36639
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	17952

Anti-NUDT1 / MTH1 Antibody - Additional Information**Gene ID** 4521**Alias Symbol** **NUDT1****Other Names**

NUDT1, 8-oxo-dGTPase, 2-hydroxy-dATP diphosphatase, MutT human homolog 1, Nudix motif 1, MTH1

Target/Specificity

MTH1 antibody detects endogenous levels of MTH1 protein. Not tested with other proteins.

Reconstitution & Storage

Purified

Precautions

Anti-NUDT1 / MTH1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-NUDT1 / MTH1 Antibody - Protein Information**Name** NUDT1**Synonyms** MTH1 {ECO:0000303|PubMed:7713500}**Function**

Oxidized purine nucleoside triphosphate hydrolase which is a prominent sanitizer of the oxidized nucleotide pool (PubMed:8226881, PubMed:7713500, PubMed:10608900, PubMed:12857738, PubMed:22556419, PubMed:26238318, PubMed:24695224)

target="_blank">24695224, PubMed:24695225, PubMed:28679043). Catalyzes the hydrolysis of 2-oxo-dATP (2-hydroxy-dATP) into 2-oxo-dAMP (PubMed:10373420). Has also a significant hydrolase activity toward 2- oxo-ATP, 8-oxo-dGTP and 8-oxo-dATP (PubMed:10373420, PubMed:11139615). Through the hydrolysis of oxidized purine nucleoside triphosphates, prevents their incorporation into DNA and the subsequent transversions A:T to C:G and G:C to T:A (PubMed:8226881, PubMed:10373420, PubMed:10608900, PubMed:11756418, PubMed:12857738, PubMed:16607562, PubMed:24695224, PubMed:24695225, PubMed:26999531, PubMed:28035004). Also catalyzes the hydrolysis of methylated purine nucleoside triphosphate preventing their integration into DNA (PubMed:30304478, PubMed:32144205). Through this antimutagenic activity protects cells from oxidative stress (PubMed:8226881, PubMed:7713500, PubMed:10608900, PubMed:12857738, PubMed:24695224, PubMed:24695225, PubMed:30304478, PubMed:32144205).

Cellular Location

[Isoform p18]: Cytoplasm, cytosol. Mitochondrion matrix. Nucleus. Note=Mostly present in cytosol (PubMed:7782328). A minor proportion is mitochondrial (PubMed:7782328) A very small amount of the protein is associated with nuclei (PubMed:7782328).

Tissue Location

Widely expressed with highest expression in thymus, testis, embryo and proliferating blood lymphocytes

Anti-NUDT1 / MTH1 Antibody - 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](#)

Anti-NUDT1 / MTH1 Antibody - Images