

# MTH1 Rabbit mAb

Catalog # AP75748

## Product Information

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Application	WB, IP, ICC
Primary Accession	<a href="#">P36639</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	17952

## Additional Information

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Gene ID	4521
Other Names	NUDT1
Dilution	WB~~1/500-1/1000 IP~~N/A ICC~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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Name	NUDT1
Synonyms	MTH1 {ECO:0000303   PubMed:7713500}
Function	<p>Oxidized purine nucleoside triphosphate hydrolase which is a prominent sanitizer of the oxidized nucleotide pool (PubMed:<a href="#">10608900</a>, PubMed:<a href="#">12857738</a>, PubMed:<a href="#">22556419</a>, PubMed:<a href="#">24695224</a>, PubMed:<a href="#">24695225</a>, PubMed:<a href="#">26238318</a>, PubMed:<a href="#">28679043</a>, PubMed:<a href="#">7713500</a>, PubMed:<a href="#">8226881</a>). Catalyzes the hydrolysis of 2-oxo-dATP (2-hydroxy-dATP) into 2-oxo-dAMP (PubMed:<a href="#">10373420</a>). Also has a significant hydrolase activity toward 2- oxo-ATP, 8-oxo-dGTP and 8-oxo-dATP (PubMed:<a href="#">10373420</a>, PubMed:<a href="#">11139615</a>). 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:<a href="#">10373420</a>, PubMed:<a href="#">10608900</a>, PubMed:<a href="#">11756418</a>, PubMed:<a href="#">12857738</a>, PubMed:<a href="#">16607562</a>, PubMed:<a href="#">24695224</a>, PubMed:<a href="#">24695225</a>, PubMed:<a href="#">26999531</a>, PubMed:<a href="#">28035004</a>, PubMed:<a href="#">8226881</a>). Also catalyzes the hydrolysis of methylated purine nucleoside triphosphate preventing their integration into DNA (PubMed:<a href="#">30304478</a>, PubMed:<a href="#">32144205</a>). Through this antimutagenic activity protects cells from oxidative stress (PubMed:<a href="#">10608900</a>,</p>

PubMed:[12857738](#), PubMed:[24695224](#), PubMed:[24695225](#),  
PubMed:[30304478](#), PubMed:[32144205](#), PubMed:[7713500](#), PubMed:[8226881](#)).

## Cellular Location

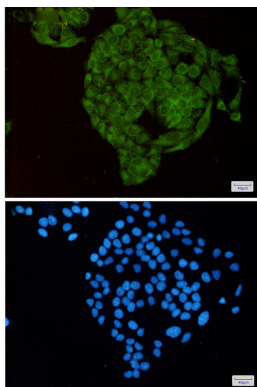
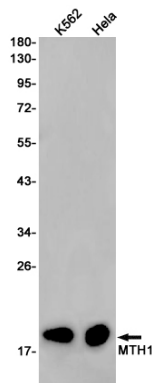
[Isoform p18]: Cytoplasm, cytosol. Mitochondrion matrix. Nucleus.  
Note=Mostly present in cytosol (PubMed:7782328). A minor proportion is mitochondrial (PubMed:7782328) A very small amount of the protein is associated with nuclei (PubMed:7782328).

## Tissue Location

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

## Images

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