

## NUDT1 polyclonal antibody

Catalog: BS60089

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

MTH1, also known as NUDT1 (nudix (nucleoside di-phosphate linked moiety X)-type motif 1), is a 179 amino acid cytoplasmic protein that is a member of the nudix hydrolase family. Highly expressed in testis, thymus and proliferating blood lymphocytes, MTH1 functions as an antimutagenic that hydrolyzes oxidized purine nucleoside triphosphates to their corresponding monophosphates. Through its ability to enzymatically hydrolyze ATP and GTP to AMP and GMP, respectively, MTH1 prevents misincorporation of GTP into DNA, thus preventing A:T to C:G transversions. The cytoplasmic location of MTH1, along with its antimutagenic capabilities, suggests that it may also be involved in the sanitization of nucleotide pools for both mitochondrial and nuclear genomes. Four isoforms of MTH1 exist—three of which are formed due to alternative splicing events and one of which is formed via a single-nucleotide polymorphism. Overexpression of MTH1 is implicated in prostate and cell lung carcinomas.

### Product:

1mg/ml in PBS with 0.1% Sodium Azide, 50% Glycerol.

### Molecular Weight:

~ 18 kDa

### Swiss-Prot:

P36639

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

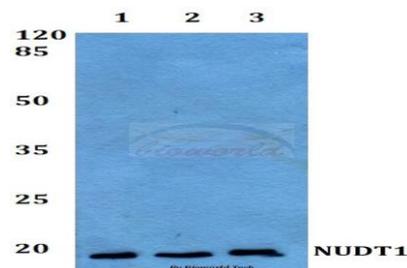
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

NUDT1 polyclonal antibody detects endogenous levels of NUDT1 protein.

### DATA:



Western blot (WB) analysis of NUDT1 polyclonal antibody at 1:500 dilution

Lane1:A549 whole cell lysate

Lane2:Mouse liver tissue lysate

Lane3:Rat brain tissue lysate

### Note:

For research use only, not for use in diagnostic procedure.

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