

## Product datasheet for **AM50635PU-N**

### **NUDT1 Mouse Monoclonal Antibody [Clone ID: AT3B3]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	AT3B3
<b>Applications:</b>	ELISA, WB
<b>Recommended Dilution:</b>	The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Recombinant human NUDT1 (1-156aa) purified from E. coli.
<b>Formulation:</b>	Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol. State: Purified State: Liquid purified Ig fraction
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Protein-A affinity chromatography
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	nudix hydrolase 1
<b>Database Link:</b>	<a href="#">Entrez Gene 4521 Human P36639</a>



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**Background:**

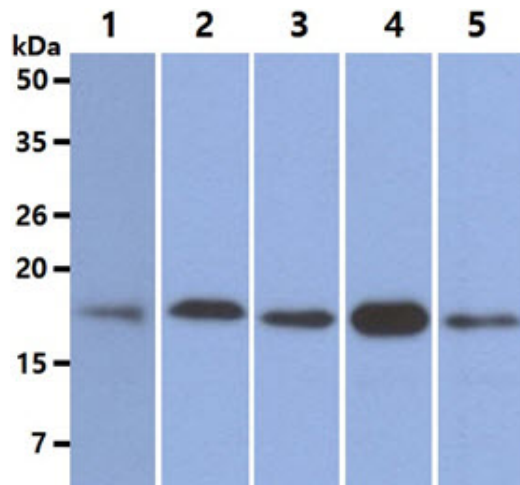
NUDT1, also known as MTH1 is a 179 amino acid cytoplasmic protein that is a member of the nudix hydrolase family. Highly expressed in testis, thymus and proliferating blood lymphocytes, NUDT1 functions as an antimutagenic that hydrolyzes oxidized purine nucleoside triphosphates to their corresponding monophosphates. Through its ability to enzymatically hydrolyze ATP and GTP to AMP and GMP, respectively, NUDT1 prevents misincorporation of GTP into D, thus preventing A:T to C:G transversions.

**Synonyms:**

7,8-dihydro-8-oxoguanine triphosphatase, 8-oxo-dGTPase, MTH1

**Protein Families:**

Stem cell - Pluripotency

**Product images:**

The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NUDT1 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: K-562 cell lysate Lane 2.: SW480 cell lysate Lane 3.: THP-1 cell lysate Lane 4.: Jurkat cell lysate Lane 5.: A549 cell lysate