

NUDT15 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11030b**Specification**

NUDT15 Antibody (C-term) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	O9NV35
Other Accession	NP_060753.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	18609
Antigen Region	89-118

NUDT15 Antibody (C-term) - Additional Information**Gene ID** 55270**Other Names**

Probable 8-oxo-dGTP diphosphatase NUDT15, 8-oxo-dGTPase NUDT15, 8-dihydro-8-oxoguanine-triphosphatase NUDT15, MutT homolog 2, MTH2, Nucleoside diphosphate-linked moiety X motif 15, Nudix motif 15, NUDT15, MTH2

Target/Specificity

This NUDT15 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 89-118 amino acids from the C-terminal region of human NUDT15.

Dilution

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:500

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

NUDT15 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

NUDT15 Antibody (C-term) - Protein Information

Name NUDT15 ([HGNC:23063](#))

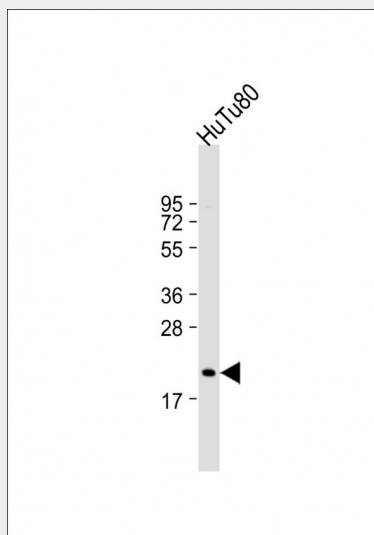
Function May catalyze the hydrolysis of nucleoside triphosphates including dGTP, dTTP, dCTP, their oxidized forms like 8-oxo-dGTP and the prodrug thiopurine derivatives 6-thio-dGTP and 6-thio-GTP (PubMed:[26238318](#)). Could also catalyze the hydrolysis of some nucleoside diphosphate derivatives (PubMed:[22556419](#), PubMed:[26238318](#)). 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:[22556419](#), PubMed:[26238318](#)). Through the hydrolysis of thioguanosine triphosphates may participate in the catabolism of thiopurine drugs (PubMed:[25108385](#), PubMed:[26238318](#)). May also have a role in DNA synthesis and cell cycle progression by stabilizing PCNA (PubMed:[19419956](#)). Exhibits decapping activity towards dpCoA-capped RNAs in vitro (By similarity).

NUDT15 Antibody (C-term) - Protocols

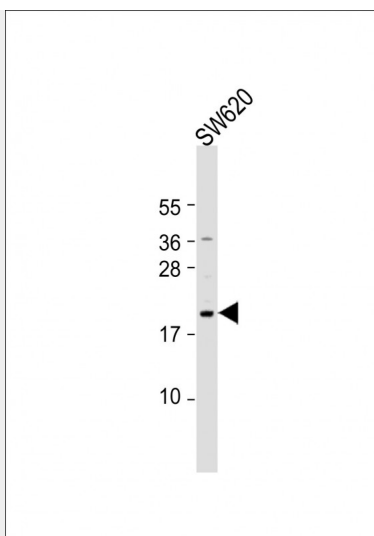
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

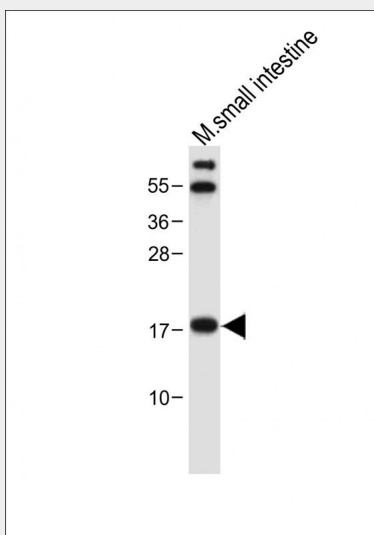
NUDT15 Antibody (C-term) - Images



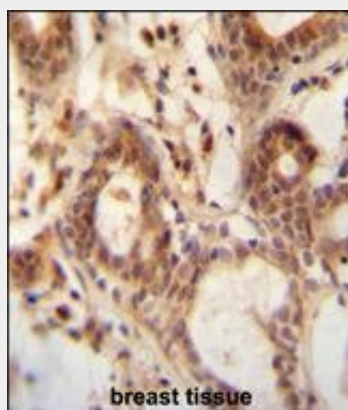
Anti-NUDT15 Antibody (C-term) at 1:1000 dilution + HuTu80 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 19 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-NUDT15 Antibody (C-term) at 1:1000 dilution + SW620 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 19 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

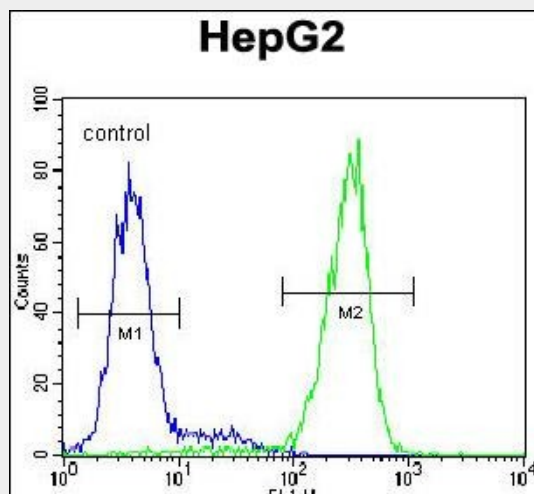


Anti-NUDT15 Antibody (C-term) at 1:500 dilution + Mouse small intestine tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 19 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



NUDT15 antibody (C-term) (Cat. #AP11030b) immunohistochemistry analysis in formalin fixed

and paraffin embedded human breast tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the NUDT15 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



NUDT15 Antibody (C-term) (Cat. #AP11030b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

NUDT15 Antibody (C-term) - Background

Mediates the hydrolysis of some nucleoside diphosphate derivatives. Can degrade 8-oxo-dGTP in vitro, suggesting that it may remove an oxidatively damaged form of guanine (7,8-dihydro-8-oxoguanine) from DNA and the nucleotide pool, thereby preventing misincorporation of 8-oxo-dGTP into DNA thus preventing A:T to C:G transversions. Its substrate specificity in vivo however remains unclear (By similarity). May have a role in DNA synthesis and cell cycle progression through the interaction with PCNA.

NUDT15 Antibody (C-term) - References

Hori, M., et al. Free Radic. Biol. Med. 48(9):1197-1201(2010) Yu, Y., et al. J. Biol. Chem. 284(29):19310-19320(2009) Dunham, A., et al. Nature 428(6982):522-528(2004) Cai, J.P., et al. Biochem. Biophys. Res. Commun. 305(4):1073-1077(2003)