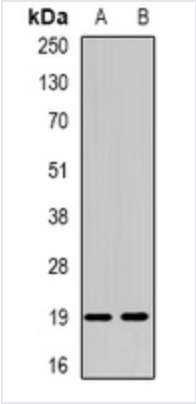
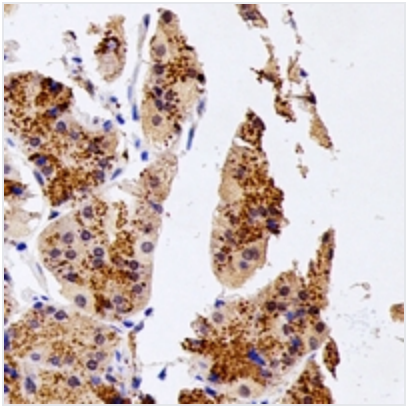
NUDT15 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NUDT15, Polyclonal Antibody
Full Product Name	Anti-NUDT15 Antibody
Product Gene Name	anti-NUDT15 antibody
Product Synonym Names	MTH2; Probable 8-oxo-dGTP diphosphatase NUDT15; 8-oxo-dGTPase NUDT15; 7,8-dihydro-8-oxoguanine-triphosphatase NUDT15; MutT homolog 2; MTH2; Nucleoside diphosphate-linked moiety X motif 15; Nudix motif 15
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of NUDT15 protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	18,609 Da
OMIM	615792
3D Structure	ModBase 3D Structure for Q9NV35
Immunogen	Recombinant full length protein of human NUDT15
Applications Tested/Suitable for anti-NUDT15 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-NUDT15 antibody	WB: 1/500 - 1/2000; IHC: 1/50 - 1/100
Related Product Information for anti-NUDT15 antibody	MBS8245227 is an antibody targeting NUDT15. Reactive in Human. Host: Rabbit. Rabbit polyclonal antibody to NUDT15
Other Notes	Small volumes of anti-NUDT15 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-NUDT15 antibody
Western blot analysis of NUDT15 expression in HT29 (A), SW480 (B) whole cell lysates.



Immunohistochemistry (IHC) of anti-NUDT15 antibody
Immunohistochemical analysis of NUDT15 staining in human stomach formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NUDT15. It may not necessarily be applicable to this product.

NCBI GI #	754169469
NCBI GeneID	55270
NCBI Accession #	NP_001291674.1
UniProt Primary Accession #	Q9NV35
UniProt Secondary Accession #	Q32Q27; Q6P2C9; A2RUR6
UniProt Related Accession #	Q9NV35
GenBank Nucleotide #	NM_001304745.1
NCBI Official Full Name	probable 8-oxo-dGTP diphosphatase NUDT15 isoform 2
NCBI Official Synonym Full Names	nudix hydrolase 15
NCBI Official Symbol	NUDT15
NCBI Official Synonym Symbols	MTH2; NUDT15D
UniProt Protein Name	Probable 8-oxo-dGTP diphosphatase NUDT15
UniProt Synonym Protein Names	7,8-dihydro-8-oxoguanine-triphosphatase NUDT15; MutT homolog 2; MTH2; Nucleoside diphosphate-linked moiety X motif 15; Nudix motif 15
Protein Family	Nucleotide triphosphate diphosphatase
UniProt Gene Name	NUDT15
UniProt Synonym Gene Names	MTH2; 8-oxo-dGTPase NUDT15; MTH2; Nudix motif 15
UniProt Entry Name	NUD15_HUMAN
NCBI Protein Information	probable 8-oxo-dGTP diphosphatase NUDT15
NCBI Summary for NUDT15	This gene encodes an enzyme that belongs to the Nudix hydrolase superfamily. Members of this superfamily catalyze the hydrolysis of nucleoside diphosphates, including substrates like 8-oxo-dGTP, which are a result of oxidative damage, and can induce base mispairing during DNA replication, causing transversions. The encoded enzyme is a negative regulator of thiopurine activation and toxicity. Mutations in this gene result in poor metabolism of thiopurines, and are associated with thiopurine-induced early leukopenia. Multiple pseudogenes of this gene have been identified. [provided by RefSeq, Apr 2016]

UniProt Comments for NUDT15	NUDT15: 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. May have a role in DNA synthesis and cell cycle progression through the interaction with PCNA. Belongs to the Nudix hydrolase family. Protein type: Hydrolase; EC 3.6.1.55 Chromosomal Location of Human Ortholog: 13q14.2 Cellular Component: cytosol Molecular Function: 8-oxo-7,8-dihydroguanine triphosphatase activity; metal ion binding; nucleoside-diphosphatase activity Biological Process: dGTP catabolic process
Research Articles on NUDT15	**1.** Depletion of NUDT15 has no effect on incorporation of 8-oxo-dGTP into DNA and does not impact cancer cell survival in cell lines tested. NUDT15 is not a biologically relevant 8-oxo-dGTPase
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