

Mouse anti-Human NUDT1 Monoclonal Antibody | anti-NUDT1 antibody

NUDT1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48185	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

NUDT1; Monoclonal Antibody; NUDT1 antibody; 78-dihydro-8-oxoguanine triphosphatase; MTH1; 8-oxo-dGTPase; Nudix motif 1; 7; 8-dihydro-8-oxoguanine triphosphatase; anti-NUDT1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	AT3B3
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	156
Applicable Applications for anti-NUDT1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human NUDT1 (1-156aa) purified from E. coli
Clone Note	Anti-human NUDT1 mAb, clone AT3B3, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human NUDT1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of NUDT1 in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human NUDT1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-NUDT1 antibody	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 DNA, thus preventing A:T to C:G transversions.
Product Categories/Family for anti-NUDT1 antibody	Metabolism
References	Satoh J., et al. (2000) Eur J Neurol. 7 (6): 673-677. ; Choi KM., et al. (2015) FEBS Lett. 589 (3): 349-357.

NCBI AND UNIPROT INFORMATION

NCBI GI #	40288284
NCBI GeneID	4521
NCBI Accession #	NP_945191
NCBI GenBank Nucleotide #	NM_198953.1
UniProt Accession #	P36639; Q6LES7; Q6P0Y6; Q7Z7N6; Q8IV95; Q9UBM0; Q9UBM9; A4D205
Molecular Weight	17,952 Da
NCBI Official Full Name	7,8-dihydro-8-oxoguanine triphosphatase isoform p18
NCBI Official Synonym Full Names	nudix hydrolase 1
NCBI Official Symbol	NUDT1
NCBI Official Synonym Symbols	MTH1
NCBI Protein Information	7,8-dihydro-8-oxoguanine triphosphatase
UniProt Protein Name	7,8-dihydro-8-oxoguanine triphosphatase
UniProt Gene Name	NUDT1
UniProt Synonym Gene Names	MTH1; Nudix motif 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/nudt1-antibody-clone-at3b3-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48185>