

Rabbit NUDT6 Polyclonal Antibody | anti-NUDT6 antibody

Anti-NUDT6 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127513	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

NUDT6; Polyclonal Antibody; Anti-NUDT6 Antibody Picoband; SET domain bifurcated histone lysine methyltransferase 2; Histone-lysine N-methyltransferase SETDB2; Chronic lymphocytic leukemia deletion region gene 8 protein; Lysine N-methyltransferase 1F; SET domain bifurcated 2; SETDB2; C13orf4; CLLD8; KMT1F; anti-NUDT6 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Highly Expressed in reproductive organs, such as testis, ovary and prostate.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NUDT6 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human NUDT6 recombinant protein (Position: D45-K303).
Subcellular Localization	Nucleus. Chromosome.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Histone methyltransferase involved in left-right axis specification in early development and mitosis. Specifically trimethylates 'Lys-9' of histone H3 (H3K9me3). H3K9me3 is a specific tag for epigenetic transcriptional repression that recruits HP1 (CBX1, CBX3 and/or CBX5) proteins to methylated histones. Contributes to H3K9me3 in both the interspersed repetitive elements and centromere-associated repeats. Plays a role in chromosome condensation and segregation during mitosis.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of NUDT6 using anti-NUDT6 antibody (AAA127513).NUDT6 was detected in a paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NUDT6 Antibody (AAA127513) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of NUDT6 using anti-NUDT6 antibody (AAA127513).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Jurkat whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human K562 whole cell lysates,Lane 4: human THP-1 whole cell lysates,Lane 5: human PC-3 whole cell lysates,Lane 6: human A549 whole cell lysates,Lane 7: human Hela whole cell lysates,Lane 8: human SH-SY5Y whole cell lysates,Lane 9: rat kidney tissue lysates,Lane 10: rat H9C2 whole cell lysates,Lane 11: mouse kidney tissue lysates,Lane 12: mouse HEPA1/6 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NUDT6 antigen affinity purified polyclonal antibody (#AAA127513) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NUDT6 at approximately 72 kDa. The expected band size for NUDT6 is at 72 kDa.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of NUDT6 using anti-NUDT6 antibody (AAA127513).NUDT6 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NUDT6 Antibody (AAA127513) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-NUDT6 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-NUDT6 antibody	Primary Antibodies; Immune System Diseases; Immunology; Protein Trafficking; Signal Transduction; Signaling Pathway
References	1. Asa, S. L., Ramyar, L., Murphy, P. R., Li, A. W., Ezzat, S. The endogenous fibroblast growth factor-2 antisense gene product regulates pituitary cell growth and hormone production. Molec. Endocr. 15: 589-599, 2001.2. Gagnon, M. L., Moy, G. K., Klagsbrun, M. Characterization of the promoter for the human antisense fibroblast growth factor-2 gene; regulation by Ets in Jurkat T cells. J. Cell. Biochem. 72: 492-506, 1999. 3. Murphy, P. R., Knee, R. S. Identification and characterization of an antisense RNA transcript (gfg) from the human basic fibroblast growth factor gene. Molec. Endocr. 8: 852-859, 1994.

NCBI AND UNIPROT INFORMATION

NCBI GI #	17380446
NCBI GeneID	11162
UniProt Accession #	P53370; O95097; Q9UQD9; A8K756
Molecular Weight	316
NCBI Official Full Name	Nucleoside diphosphate-linked moiety X motif 6

NCBI Official Synonym Full Names	nudix (nucleoside diphosphate linked moiety X)-type motif 6
NCBI Official Symbol	NUDT6
NCBI Official Synonym Symbols	GFG1; GFG-1; ASFGF2; FGF-AS; FGF2AS
NCBI Protein Information	nucleoside diphosphate-linked moiety X motif 6; antisense basic fibroblast growth factor
UniProt Protein Name	Nucleoside diphosphate-linked moiety X motif 6
UniProt Gene Name	NUDT6
UniProt Synonym Gene Names	FGF2AS; Nudix motif 6
UniProt Entry Name	NUDT6_HUMAN

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/polyclonal/nudt6-antibody-immunohistochemistry-western-blot-elisa/127513>