

Rabbit anti-Human NUDT15 Polyclonal Antibody | anti-NUDT15 antibody

Anti-NUDT15 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127304	Rabbit	Human	ELISA, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

NUDT15; Polyclonal Antibody; Anti-NUDT15 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-NUDT15 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-NUDT15 antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human NUDT15 recombinant protein (Position: C23-L164). Human NUDT15 shares 90.8% amino acid (aa) sequence identity with mouse NUDT15.
Subcellular Localization	Cytoplasm, Nucleus
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	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
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.

IMAGES



IF (Immunofluorescence)

Figure 2. IF analysis of NUDT15 using anti-NUDT15 antibody (AAA127304).NUDT15 was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-NUDT15 Antibody (AAA127304) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The tissue section was developed using Phalloidin-iFluor 488 Conjugated. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of NUDT15 using anti-NUDT15 antibody (AAA127304).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 Hela whole cell lysates,Lane 3: human Caco-2 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-NUDT15 antigen affinity purified polyclonal antibody (#AAA127304) 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 NUDT15 at approximately 19 kDa. The expected band size for NUDT15 is at 19 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NUDT15 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-NUDT15 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Cai, J.-P., Ishibashi, T., Takagi, Y., Hayakawa, H., Sekiguchi, M. Mouse MTH2 protein which prevents mutations caused by 8-oxoguanine nucleotides. Biochem. Biophys. Res. Commun. 305: 1073-1077, 2003.2. Hartz, P. A. Personal Communication. Baltimore, Md. 5/13/2014.3. Moriyama, T., Nishii, R., Perez-Andreu, V., Yang, W., Klussmann, F. A., Zhao, X., Lin, T.-N., Hoshitsuki, K., Nersting, J., Kihira, K., Hofmann, U., Komada, Y., and 22 others. NUDT15 polymorphisms alter thiopurine metabolism and hematopoietic toxicity. Nature Genet. 48: 367-373, 2016

NCBI AND UNIPROT INFORMATION

NCBI GI #	754169469
NCBI GeneID	55270
NCBI Accession #	NP_001291674.1
NCBI GenBank Nucleotide #	NM_001304745.1
UniProt Accession #	Q9NV35; Q32Q27; Q6P2C9; A2RUR6
Molecular Weight	18,609 Da
NCBI Official Full Name	nucleotide triphosphate diphosphatase NUDT15 isoform 2
NCBI Official Synonym Full Names	nudix hydrolase 15
NCBI Official Symbol	NUDT15
NCBI Official Synonym Symbols	MTH2; NUDT15D
NCBI Protein Information	nucleotide triphosphate diphosphatase NUDT15
UniProt Protein Name	Nucleotide triphosphate diphosphatase NUDT15
UniProt Gene Name	NUDT15
UniProt Synonym Gene Names	Nudix hydrolase 15

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/nudt15-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/127304>