

Rabbit NUDT12 Polyclonal Antibody | anti-NUDT12 antibody

Anti-NUDT12 Antibody Picoband

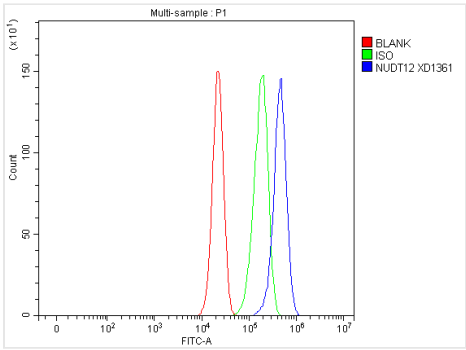
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128214	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

NUDT12; Polyclonal Antibody; Anti-NUDT12 Antibody Picoband; NAD-capped RNA hydrolase NUDT12; nudix hydrolase 12; Peroxisomal NADH pyrophosphatase NUDT12; EC 3.6.1.22; Nucleoside diphosphate-linked moiety X motif 12; Nudix motif 12; anti-NUDT12 antibody

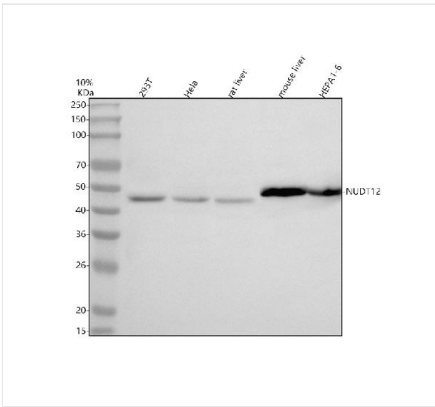
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
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-NUDT12 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human NUDT12 recombinant protein (Position: M1-L462). Human NUDT12 shares 87.9% amino acid (aa) sequence identity with mouse NUDT12.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
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.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of A549 cells using anti-NUDT12 antibody (AAA128214). Overlay histogram showing A549 cells stained with AAA128214 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NUDT12 Antibody (AAA128214, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of NUDT12 using anti-NUDT12 antibody (AAA128214). 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 293T whole cell lysates, Lane 2: human Hepa whole cell lysates, Lane 3: rat liver tissue lysates, Lane 4: mouse liver tissue lysates, Lane 5: 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-NUDT12 antigen affinity purified polyclonal antibody (AAA128214) 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 NUDT12 at approximately 47 kDa. The expected band size for NUDT12 is at 52 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NUDT12 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-NUDT12 antibody	Primary Antibodies
References	1. Abdelraheim, S. R., Spiller, D. G., McLennan, A. G. Mammalian NADH diphosphatases of the Nudix family: cloning and characterization of the human peroxisomal NUDT12 protein. Biochem. J. 374: 329-335, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13899267
NCBI GeneID	83594
NCBI Accession #	NP_113626.1
NCBI GenBank Nucleotide #	NM_031438.3
UniProt Accession #	Q9BQG2; Q8TAL7; B3KUW2
Molecular Weight	52,076 Da
NCBI Official Full Name	peroxisomal NADH pyrophosphatase NUDT12 isoform 1
NCBI Official Synonym Full Names	nudix (nucleoside diphosphate linked moiety X)-type motif 12
NCBI Official Symbol	NUDT12
NCBI Protein Information	peroxisomal NADH pyrophosphatase NUDT12; nudix motif 12; nucleoside diphosphate-linked moiety X motif 12; nucleoside diphosphate linked moiety X-type motif 12

UniProt Protein Name	Peroxisomal NADH pyrophosphatase NUDT12
UniProt Gene Name	NUDT12
UniProt Synonym Gene Names	Nudix motif 12
UniProt Entry Name	NUDT12_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://www.aaabiotech.com/polyclonal/nudt12-antibody-flow-cytometry-western-blot-elisa/128214>