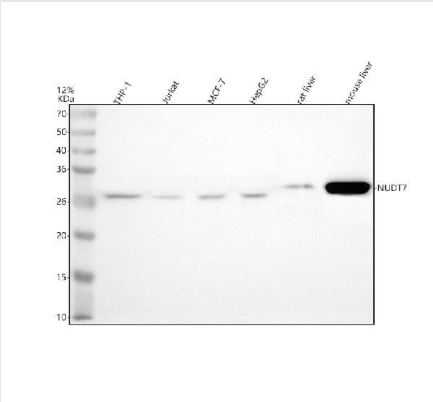
NUDT7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

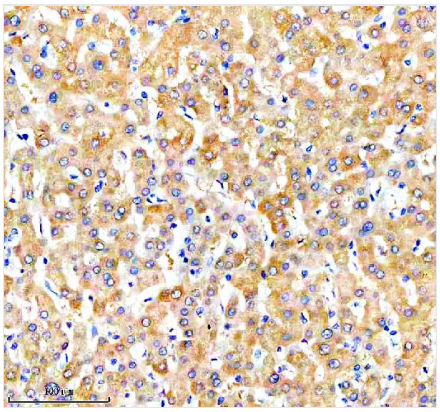
Product Name	NUDT7, Polyclonal Antibody
Full Product Name	Anti-NUDT7 Antibody Picoband
Product Gene Name	anti-NUDT7 antibody
Product Synonym Names	Peroxisomal coenzyme A diphosphatase NUDT7; nudix hydrolase 7; NUDT7; Peroxisomal coenzyme A diphosphatase NUDT7; EC 3.6.1.-; Nucleoside diphosphate-linked moiety X motif 7; Nudix motif 7
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
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.
Molecular Weight	18,724 Da
OMIM	609231
3D Structure	ModBase 3D Structure for P0C024
Immunogen	E coli-derived human NUDT7 recombinant protein (Position: M1-L238). Human NUDT7 shares 67.2% amino acid (aa) sequence identity with mouse NUDT7.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Product Categories/Family for anti-NUDT7 antibody	Primary Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-NUDT7 antibody	Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-NUDT7 antibody	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC: 2-5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-NUDT7 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 References and Citations for anti-NUDT7 antibody	1. Gasmi, L., McLennan, A. G. The mouse Nudt7 gene encodes a peroxisomal nudix hydrolase specific for coenzyme A and its derivatives. Biochem. J. 357: 33-38, 2001.2. Hartz, P. A. Personal Communication. Baltimore, Md. 3/3/2005.
Other Notes	Small volumes of anti-NUDT7 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.

Searchable Terms for NUDT7 purchase	MBS1760163 is an antibody targeting NUDT7. Also known as Anti-NUDT7 Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



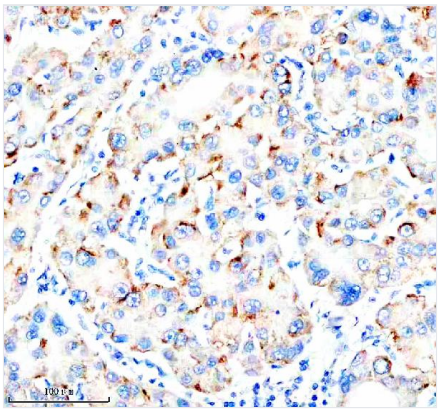
Western Blot (WB) of anti-NUDT7 antibody

Figure 1. Western blot analysis of NUDT7 using anti-NUDT7 antibody (MBS1760163).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 THP-1 whole cell lysates,Lane 2: human Jurkat whole cell lysates,Lane 3: human MCF-7 whole cell lysates,Lane 4: human HepG2 whole cell lysates,Lane 5: rat liver tissue lysates,Lane 6: mouse liver tissue 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-NUDT7 antigen affinity purified polyclonal antibody (MBS1760163) 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 (#MBS176460) with Tanon 5200 system. A specific band was detected for NUDT7 at approximately 27 kDa. The expected band size for NUDT7 is at 27 kDa.



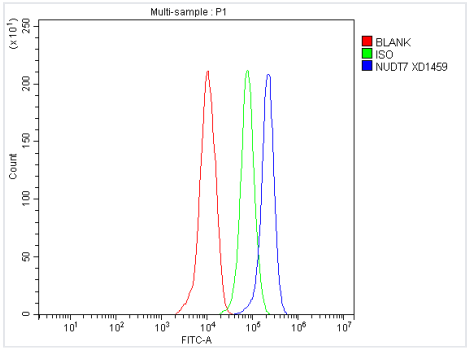
Immunohistochemistry (IHC) of anti-NUDT7 antibody

Figure 2. IHC analysis of NUDT7 using anti-NUDT7 antibody (MBS1760163).NUDT7 was detected in a paraffin-embedded section of human liver 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-NUDT7 Antibody (MBS1760163) 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 (#MBS176453) with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-NUDT7 antibody

Figure 3. IHC analysis of NUDT7 using anti-NUDT7 antibody (MBS1760163).NUDT7 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-NUDT7 Antibody (MBS1760163) 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 (#MBS176453) with DAB as the chromogen.



Flow Cytometry (FC/FACS) of anti-NUDT7 antibody

Figure 4. Flow Cytometry analysis of THP-1 cells using anti-NUDT7 antibody (MBS1760163).Overlay histogram showing THP-1 cells stained with MBS1760163 (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-NUDT7 Antibody (MBS1760163, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (MBS177405, 5-10ug/1x106 cells) 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NUDT7. It may not necessarily be applicable to this product.

NCBI GI #	157785656
NCBI GeneID	283927
NCBI Accession #	NP_001099133.1

UniProt Primary Accession #	P0C024
UniProt Secondary Accession #	B4DLE5; H3BUB8
UniProt Related Accession #	P0C024
GenBank Nucleotide #	NM_001105663.2
NCBI Official Full Name	peroxisomal coenzyme A diphosphatase NUDT7 isoform 1
NCBI Official Synonym Full Names	nudix hydrolase 7
NCBI Official Symbol	NUDT7
UniProt Protein Name	Peroxisomal coenzyme A diphosphatase NUDT7
UniProt Synonym Protein Names	Nucleoside diphosphate-linked moiety X motif 7; Nudix motif 7
Protein Family	Nudix hydrolase
UniProt Gene Name	NUDT7
UniProt Synonym Gene Names	Nudix motif 7
NCBI Protein Information	peroxisomal coenzyme A diphosphatase NUDT7
NCBI Summary for NUDT7	The protein encoded by this gene is a member of the Nudix hydrolase family. Nudix hydrolases eliminate potentially toxic nucleotide metabolites from the cell and regulate the concentrations and availability of many different nucleotide substrates, cofactors, and signaling molecules. Alternatively spliced transcript variants encoding multiple isoforms have been found for this gene. [provided by RefSeq, Aug 2011]
UniProt Comments for NUDT7	Coenzyme A diphosphatase which mediates the cleavage of CoA, CoA esters and oxidized CoA with similar efficiencies, yielding 3',5'-ADP and the corresponding 4'-phosphopantetheine derivative as products. CoA into 3',5'-ADP and 4'-phosphopantetheine. Has no activity toward NDP-sugars, CDP-alcohols, (deoxy)nucleoside 5'-triphosphates, nucleoside 5'-di or monophosphates, diadenosine polyphosphates, NAD, NADH, NADP, NADPH or thymidine-5'-monophospho-p-nitrophenyl ester. May be required to eliminate oxidized CoA from peroxisomes, or regulate CoA and acyl-CoA levels in this organelle in response to metabolic demand. Does not play a role in U8 snoRNA decapping activity. Binds U8 snoRNA ().
Research Articles on NUDT7	**1.** Observational study of gene-disease association. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/nudt7/1760163