

# Rabbit NUDT5 Polyclonal Antibody | anti-NUDT5 antibody

Anti-NUDT5 Antibody Picoband

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                |
|-----------|--------|-------------------|-----------------------------------------------------------------------------|
| AAA127454 | Rabbit | Human, Mouse, Rat | ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot |

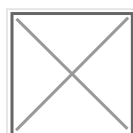
## PRODUCT SYNONYMS

NUDT5; Polyclonal Antibody; Anti-NUDT5 Antibody Picoband; BAG family molecular chaperone regulator 5; Formin-1; Limb deformity protein homolog; FMN1; FMN; LD; anti-NUDT5 antibody

## PRODUCT SPECIFICATIONS

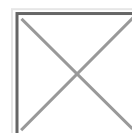
|                                                 |                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                            |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                                                                                                                 |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                        |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                                                                        |
| Specificity                                     | Expressed ubiquitously.                                                                                                                                                                                                                                                                           |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                                                                                                                      |
| Form/Format                                     | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                            |
| Applicable Applications for anti-NUDT5 antibody | ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                   |
| Immunogen                                       | E coli-derived human NUDT5 recombinant protein (Position: M1-F219).                                                                                                                                                                                                                               |
| Subcellular Localization                        | Nucleus, Cytoplasm, Cell junction, adherens junction, Cell membrane, Peripheral membrane protein, Cytoplasmic side, Localization to the adherens junctions is alpha-catenin-dependent. Also localizes to F-actin bundles originating from adherens junctions and to microtubules (By similarity). |
| 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                                | Plays a role in the formation of adherens junction and the polymerization of linear actin cables.                                                                                                                                                                                                 |
| 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



### FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of CACO-2 cells using anti-NUDT5 antibody (AAA127454).Overlay histogram showing CACO-2 cells stained with AAA127454 (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-NUDT5 Antibody (AAA127454, 1ug/1x10<sup>6</sup> cells) for 30 min at 20 degree C. DyLight488 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/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



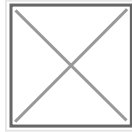
### IHC (Immunohistochemistry)

Figure 4. IHC analysis of NUDT5 using anti-NUDT5 antibody (AAA127454).NUDT5 was detected in a paraffin-embedded section of rat 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-NUDT5 Antibody (AAA127454) 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.



#### IHC (Immunohistochemisry)

Figure 3. IHC analysis of NUDT5 using anti-NUDT5 antibody (AAA127454).NUDT5 was detected in a paraffin-embedded section of mouse 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-NUDT5 Antibody (AAA127454) 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.



#### IHC (Immunohiostchemistry)

Figure 2. IHC analysis of NUDT5 using anti-NUDT5 antibody (AAA127454).NUDT5 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-NUDT5 Antibody (AAA127454) 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 NUDT5 using anti-NUDT5 antibody (AAA127454).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 CACO-2 whole cell lysates,Lane 2: human 293T whole cell lysates,Lane 3: human Jurkat whole cell lysates,Lane 4: human HepG2 whole cell lysates,Lane 5: rat liver tissue lysates,Lane 6: rat RH35 whole cell lysates,Lane 7: mouse liver tissue lysates,Lane 8: 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-NUDT5 antigen affinity purified polyclonal antibody (#AAA127454) 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 NUDT5 at approximately 35 kDa. The expected band size for NUDT5 is at 35 kDa.

## ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-NUDT5 antibody</b> | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Product Categories/Family for anti-NUDT5 antibody</b>   | <a href="#">Primary Antibodies</a> ; <a href="#">Actin Assembly</a> ; <a href="#">Actin, etc.</a> ; <a href="#">Cytoskeleton</a> ; <a href="#">Cytoskeleton/ECM</a> ; <a href="#">Microfilaments</a> ; <a href="#">Signal Transduction</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>References</b>                                          | 1. Gasmi, L., Cartwright, J. L., McLennan, A. G. Cloning, expression and characterization of YSA1H, a human adenosine 5-prime-diphosphosugar pyrophosphatase possessing a MutT motif. Biochem. J. 344: 331-337, 1999.2. McLennan, A. G. The MutT family of nucleotide phosphohydrolases in man and human pathogens. Int. J. Molec. Med. 4: 79-89, 1999.3. Wright, R. H. G., Lioutas, A., Le Dily, F., Soronellas, D., Pohl, A., Bonet, J., Nacht, A. S., Samino, S., Font-Mateu, J., Vicent, G. P., Wierer, M., Trabado, M. A., Schelhorn, C., Carolis, C., Macias, M. J., Yanes, O., Oliva, B., Beato, M. ADP-ribose-derived nuclear ATP synthesis by NUDIX5 is required for chromatin remodeling. Science 352: 1221-1225, 2016. |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                 | <a href="#">37594464</a>                                                                          |
| <b>NCBI GeneID</b>               | <a href="#">11164</a>                                                                             |
| <b>NCBI Accession #</b>          | <a href="#">NP_054861.2</a>                                                                       |
| <b>NCBI GenBank Nucleotide #</b> | <a href="#">NM_014142.2</a>                                                                       |
| <b>UniProt Accession #</b>       | <a href="#">Q9UUK9</a> ; <a href="#">Q6IAG0</a> ; <a href="#">Q9UH49</a> ; <a href="#">A8K516</a> |
| <b>Molecular Weight</b>          | 24,328 Da                                                                                         |

|                                  |                                                             |
|----------------------------------|-------------------------------------------------------------|
| NCBI Official Full Name          | ADP-sugar pyrophosphatase                                   |
| NCBI Official Synonym Full Names | nudix (nucleoside diphosphate linked moiety X)-type motif 5 |
| NCBI Official Symbol             | NUDT5                                                       |
| NCBI Official Synonym Symbols    | YSA1; YSA1H; YSAH1; hYSAH1                                  |
| NCBI Protein Information         | ADP-sugar pyrophosphatase; 8-oxo-dGDP phosphatase           |
| UniProt Protein Name             | ADP-sugar pyrophosphatase                                   |
| UniProt Gene Name                | <b>NUDT5</b>                                                |
| UniProt Synonym Gene Names       | Nudix motif 5                                               |
| UniProt Entry Name               | NUDT5_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/nudt5-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/127454>