

Datasheet for ABIN7599100
anti-NUDT5 antibody (AA 1-219)



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Overview

Quantity:	100 µg
Target:	NUDT5
Binding Specificity:	AA 1-219
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NUDT5 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunoprecipitation (IP)

Product Details

Purpose:	Anti-NUDT5 Antibody Picoband®
Immunogen:	E.coli-derived human NUDT5 recombinant protein (Position: M1-F219).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-NUDT5 Antibody Picoband® (ABIN7599100). Tested in ELISA, IP, IF, IHC, ICC, WB, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. 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.
Purification:	Immunogen affinity purified.

Target Details

Target:	NUDT5
Alternative Name:	NUDT5 (NUDT5 Products)
Background:	<p>Synonyms: Formin-1,Limb deformity protein homolog,FMN1,FMN, LD,</p> <p>Tissue Specificity: Expressed ubiquitously.</p> <p>Background: ADP-sugar pyrophosphatase is an enzyme that in humans is encoded by the NUDT5 gene. This gene belongs to the Nudix (nucleoside diphosphate linked moiety X) hydrolase superfamily. The encoded enzyme catalyzes the hydrolysis of modified nucleoside diphosphates, including ADP-ribose (ADPR) and 8-oxoGua-containing 8-oxo-dADP and 8-oxo-dGDP. Protein-bound ADP ribose can be hazardous to the cell because it can modify some amino acid residues, resulting in the inhibition of ATP-activated potassium channels. 8-oxoGua is an oxidized form of guanine that can potentially alter genetic information by pairing with adenine and cytosine in RNA. Presence of 8-oxoGua in RNA results in formation of abnormal proteins due to translational errors.</p>
Molecular Weight:	35 kDa
Gene ID:	11164

Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat</p> <p>Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human, Mouse, Rat</p> <p>Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human</p> <p>Immunoprecipitation, 0.5-2 µg/mL, Human</p> <p>Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>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.</p>
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.