

NUDT5 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57557

Product Information

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| Application | IHC-P, IHC-F, IF, ICC, E |
| Primary Accession | Q9UKK9 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 24328 |

Additional Information

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| Gene ID | 11164 |
| Other Names | ADP-sugar pyrophosphatase, 3.6.1.13, 8-oxo-dGDP phosphatase, 3.6.1.58, Nuclear ATP-synthesis protein NUDIX5, 2.7.7.96, Nucleoside diphosphate-linked moiety X motif 5, Nudix motif 5, hNUDT5, YSA1H, NUDT5, NUDIX5 {ECO:0000303 PubMed:27257257} |
| Dilution | IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000 |
| Format | 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce |
| Storage | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

Protein Information

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| Name | NUDT5 |
| Synonyms | NUDIX5 {ECO:0000303 PubMed:27257257} |
| Function | Enzyme that can either act as an ADP-sugar pyrophosphatase in absence of diphosphate or catalyze the synthesis of ATP in presence of diphosphate (PubMed: 27257257). In absence of diphosphate, hydrolyzes with similar activities various modified nucleoside diphosphates such as ADP-ribose, ADP-mannose, ADP-glucose, 8-oxo-GDP and 8-oxo-dGDP (PubMed: 10567213 , PubMed: 10722730 , PubMed: 17052728 , PubMed: 19699693 , PubMed: 21389046). Can also hydrolyze other nucleotide sugars with low activity (PubMed: 19699693 , PubMed: 21389046). In presence of diphosphate, mediates the synthesis of ATP in the nucleus by catalyzing the conversion of ADP-ribose to ATP and ribose 5-phosphate. Nuclear ATP synthesis takes place when dephosphorylated at Thr-45 (PubMed: 27257257). Nuclear ATP |

generation is required for extensive chromatin remodeling events that are energy-consuming (PubMed:[27257257](#)). Does not play a role in U8 snoRNA decapping activity (By similarity). Binds U8 snoRNA (By similarity).

Cellular Location

Nucleus.

Tissue Location

Widely expressed. Most abundant in liver.

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