

NUDT5 Antibody
Rabbit mAb
Catalog # AP92686**Specification**

NUDT5 Antibody - Product Information

Application	WB, IHC
Primary Accession	O9UKK9
Reactivity	Rat
Clonality	Monoclonal
Other Names	
hYSAH1; Nudt5; YSA1; YSA1H;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	24328 Da

NUDT5 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human NUDT5
Description	Hydrolyzes with similar activities ADP-ribose, ADP-mannose, and ADP-glucose. Can also hydrolyze other nucleotide sugars with low activity.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

NUDT5 Antibody - Protein Information**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

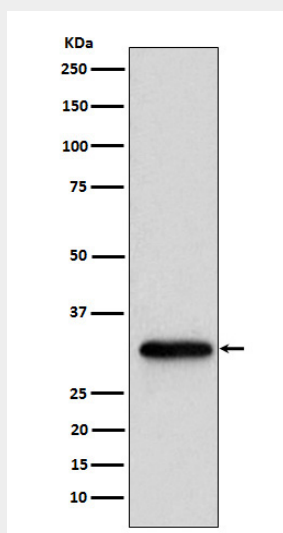
Widely expressed. Most abundant in liver.

NUDT5 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NUDT5 Antibody - Images



Western blot analysis of NUDT5 expression in HeLa cell lysate.