

# NUDT5 Rabbit mAb

Catalog # AP78736

## Product Information

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<b>Application</b>	WB, IHC-P
<b>Primary Accession</b>	<a href="#">Q9UUK9</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human NUDT5
<b>Purification</b>	Affinity Chromatography
<b>Calculated MW</b>	24328

## Additional Information

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<b>Gene ID</b>	11164
<b>Other Names</b>	NUDT5
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	NUDT5
<b>Synonyms</b>	NUDIX5 {ECO:0000303   PubMed:27257257}
<b>Function</b>	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: <a href="#">27257257</a> ). 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: <a href="#">10567213</a> , PubMed: <a href="#">10722730</a> , PubMed: <a href="#">17052728</a> , PubMed: <a href="#">19699693</a> , PubMed: <a href="#">21389046</a> ). Can also hydrolyze other nucleotide sugars with low activity (PubMed: <a href="#">19699693</a> , PubMed: <a href="#">21389046</a> ). 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: <a href="#">27257257</a> ). 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**

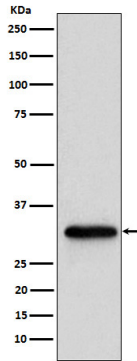
Nucleus.

**Tissue Location**

Widely expressed. Most abundant in liver.

## Images

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