

## Anti-NUDT5 Rabbit Monoclonal Antibody Catalog # ABO16103

### Specification

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#### Anti-NUDT5 Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC
Primary Accession	<a href="#">Q9UKK9</a>
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-NUDT5 Rabbit Monoclonal Antibody . Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat.

#### Anti-NUDT5 Rabbit Monoclonal Antibody - Additional Information

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}

#### Calculated MW

30 kDa KDa

#### Application Details

WB 1:500-1:2000<br>IHC 1:50-1:200

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human NUDT5

#### Purification

Affinity-chromatography

#### Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

#### Anti-NUDT5 Rabbit Monoclonal 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:<a href="http://www.uniprot.org/citations/27257257" target="\_blank">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="http://www.uniprot.org/citations/10567213" target="\_blank">10567213</a>, PubMed:<a href="http://www.uniprot.org/citations/10722730" target="\_blank">10722730</a>, PubMed:<a href="http://www.uniprot.org/citations/17052728" target="\_blank">17052728</a>, PubMed:<a href="http://www.uniprot.org/citations/19699693" target="\_blank">19699693</a>, PubMed:<a href="http://www.uniprot.org/citations/21389046" target="\_blank">21389046</a>). Can also hydrolyze other nucleotide sugars with low activity (PubMed:<a href="http://www.uniprot.org/citations/19699693" target="\_blank">19699693</a>, PubMed:<a href="http://www.uniprot.org/citations/21389046" target="\_blank">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="http://www.uniprot.org/citations/27257257" target="\_blank">27257257</a>). Nuclear ATP generation is required for extensive chromatin remodeling events that are energy-consuming (PubMed:<a href="http://www.uniprot.org/citations/27257257" target="\_blank">27257257</a>). Does not play a role in U8 snoRNA decapping activity (By similarity). Binds U8 snoRNA (By similarity).

**Cellular Location**

Nucleus.

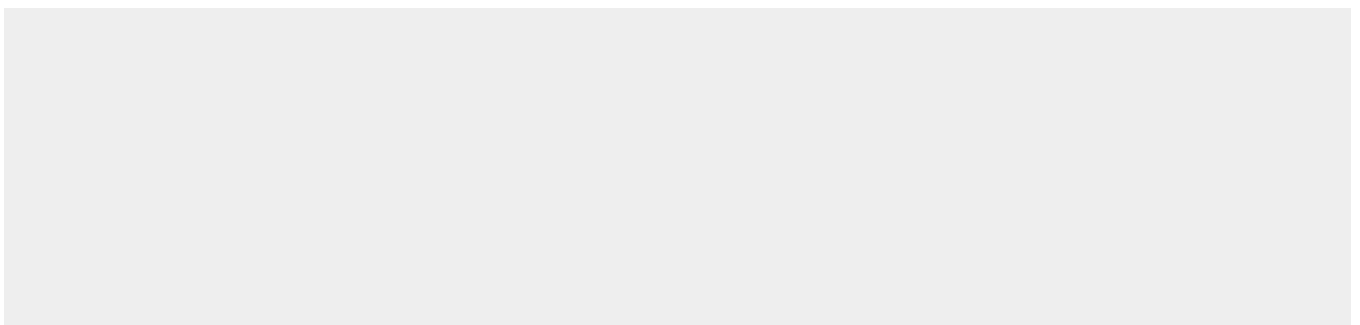
**Tissue Location**

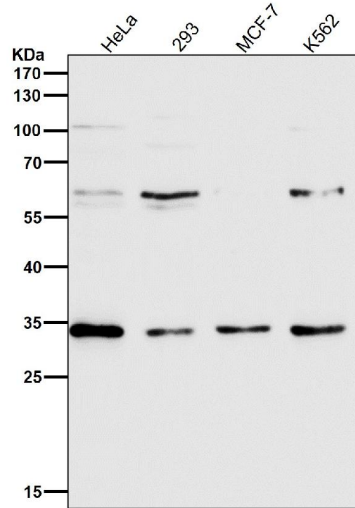
Widely expressed. Most abundant in liver.

**Anti-NUDT5 Rabbit Monoclonal Antibody - Protocols**

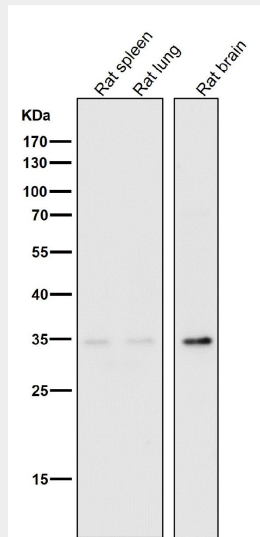
Provided below are standard protocols that you may find useful for product applications.

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

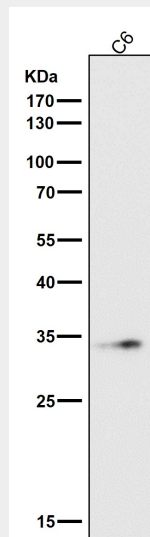
**Anti-NUDT5 Rabbit Monoclonal Antibody - Images**



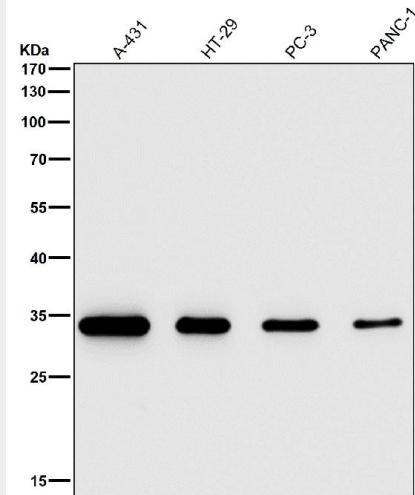
All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



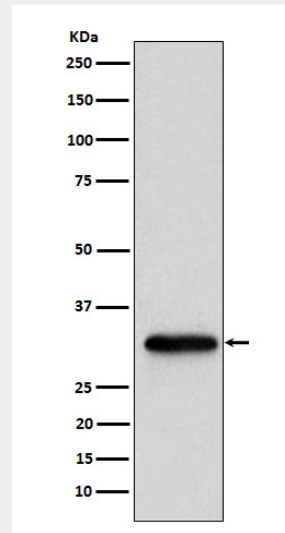
All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



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Western blot analysis of NUDT5 expression in HeLa cell lysate.