


## Product datasheet

### Anti-NUDT5 antibody [EPR7734] ab129172

KO VALIDATED Recombinant RabMAb

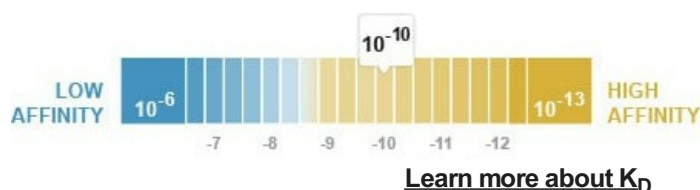
[5 References](#) [6 Images](#)

#### Overview

Product name	Anti-NUDT5 antibody [EPR7734]
Description	Rabbit monoclonal [EPR7734] to NUDT5
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> ICC/IF or IP
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
Immunogen	Synthetic peptide within Human NUDT5 aa 1-100. The exact sequence is proprietary.
Positive control	WB: U937, HeLa, 293T and HepG2 cell lysates. IHC-P: Human kidney and Human bladder carcinoma tissue.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K <sub>D</sub> )	K <sub>D</sub> = 1.77 x 10 <sup>-10</sup> M



<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR7734
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab129172 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

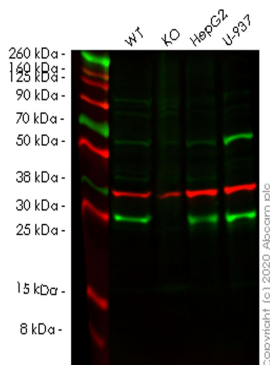
Application	Abreviews	Notes
<b>WB</b>		1/1000 - 1/10000. Predicted molecular weight: 24 kDa.
<b>IHC-P</b>		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

**Application notes** Is unsuitable for ICC/IF or IP.

## Target

<b>Function</b>	Hydrolyzes with similar activities ADP-ribose, ADP-mannose, and ADP-glucose. Can also hydrolyze other nucleotide sugars with low activity.
<b>Tissue specificity</b>	Widely expressed. Most abundant in liver.
<b>Sequence similarities</b>	Belongs to the Nudix hydrolase family. Contains 1 nudix hydrolase domain.

## Images



Western blot - Anti-NUDT5 antibody [EPR7734]  
(ab129172)

**All lanes** : Anti-NUDT5 antibody [EPR7734] (ab129172) at 1/1000 dilution

**Lane 1** : Wild-type HEK293T cell lysate

**Lane 2** : NUDT5 knockout HEK293T cell lysate

**Lane 3** : HepG2 cell lysate

**Lane 4** : U-937 cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

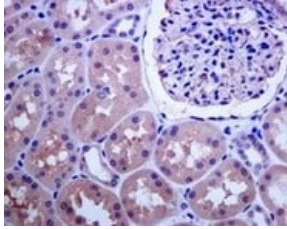
**All lanes** : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

**Predicted band size:** 24 kDa

**Observed band size:** 30 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab129172 observed at 30 kDa. Red - loading control **ab8245** observed at 36 kDa.

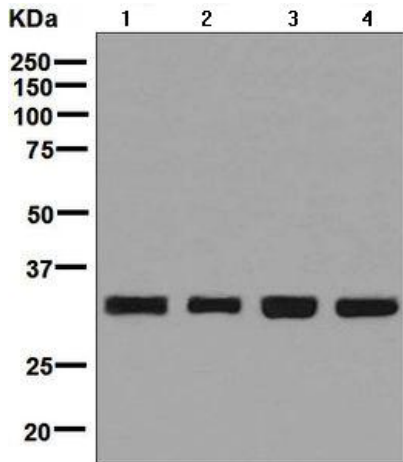
ab129172 Anti-NUDT5 antibody [EPR7734] was shown to specifically react with NUDT5 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266242** (knockout cell lysate **ab258087**) was used. Wild-type and NUDT5 knockout samples were subjected to SDS-PAGE. ab129172 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NUDT5 antibody [EPR7734] (ab129172)

ab129172, at a 1/50, staining NUDT5 in paraffin embedded Human kidney tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-NUDT5 antibody [EPR7734] (ab129172)

**All lanes** : Anti-NUDT5 antibody [EPR7734] (ab129172) at 1/1000 dilution

**Lane 1** : U937 cell lysate

**Lane 2** : HeLa cell lysate

**Lane 3** : 293T cell lysate

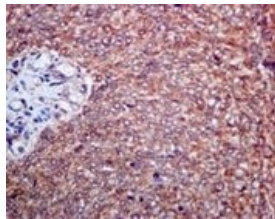
**Lane 4** : HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes** : HRP labelled goat anti-rabbit at 1/2000 dilution

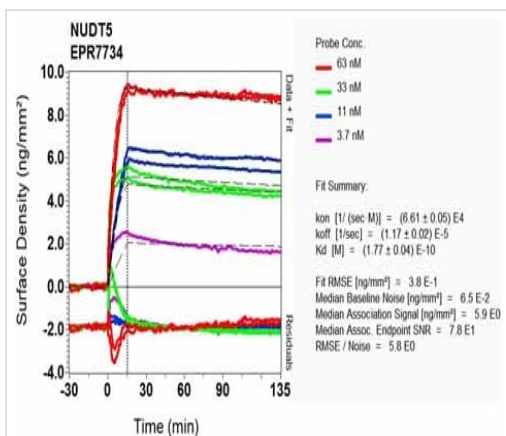
**Predicted band size:** 24 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NUDT5 antibody [EPR7734] (ab129172)

ab129172, at 1/50, staining NUDT5 in paraffin embedded Human bladder carcinoma tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



SPR Scanning - Anti-NUDT5 antibody [EPR7734]  
(ab129172)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-NUDT5 antibody [EPR7734] (ab129172)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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