

Product datasheet

Anti-QPRT antibody [EPR11941(B)] ab171944

KO VALIDATED Recombinant RabMAB

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

Overview

Product name	Anti-QPRT antibody [EPR11941(B)]
Description	Rabbit monoclonal [EPR11941(B)] to QPRT
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IP Unsuitable for: ICC/IF or IHC
Species reactivity	Reacts with: Human Does not react with: Mouse, Rat
Immunogen	Synthetic peptide within Human QPRT aa 250 to the C-terminus (C terminal) (Cysteine residue). The exact sequence is proprietary. Database link: Q15274
Positive control	Human fetal kidney, Human fetal liver and Human fetal brain lysate, HepG2 and HeLa cell line lysates, Jurkat cells, HAP1 lysate
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here . Our RabMAB [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAB[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR11941(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab171944 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

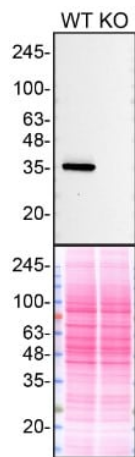
Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/500 - 1/5000. Predicted molecular weight: 31 kDa.
IP		Use at an assay dependent concentration.

Application notes Is unsuitable for ICC/IF or IHC.

Target

Function	Involved in the catabolism of quinolinic acid (QA).
Pathway	Cofactor biosynthesis; NAD(+) biosynthesis; nicotinate D-ribonucleotide from quinolinate: step 1/1.
Sequence similarities	Belongs to the nadC/modD family.

Images



Western blot - Anti-QPRT antibody [EPR11941(B)] (ab171944)

All lanes : Anti-QPRT antibody [EPR11941(B)] (ab171944) at 1/500 dilution

Lane 1 : Wild-type HAP1 lysate

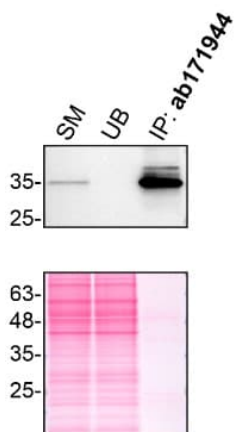
Lane 2 : QPRT knock-out HAP1 lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 31 kDa

ab171944 was shown to react with QPRT in wild-type HAP1 cells in Western blot with loss of signal observed in a QPRT knockout cell line. Wild-type HAP1 and QPRT knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 5% milk in TBST for 1 hr before incubation with ab171944 overnight at 4°C at a 1/500 dilution. Blots were incubated with secondary antibodies at 0.2µg/mL before imaging.

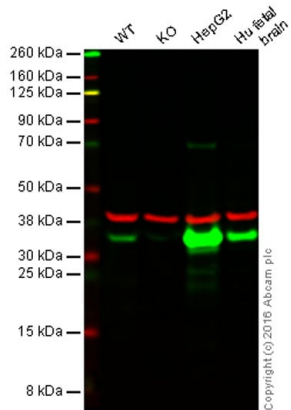
This data was provided by YCharOS Inc., an open science company with the mission of characterizing commercially available antibody reagents for all human proteins. Abcam and YCharOS are working together to help address the reproducibility crisis by enabling the life science community to better evaluate commercially available antibodies.



Immunoprecipitation - Anti-QPRT antibody [EPR11941(B)] (ab171944)

Immunoprecipitation of QPRT in HAP1 cells. Lysates were prepared and immunoprecipitation was performed using 2.0 µg of ab171944 pre-coupled to Protein A beads. Samples were washed and processed for western blot with ab171944 at 1/1000

This data was provided by YCharOS Inc., an open science company with the mission of characterizing commercially available antibody reagents for all human proteins. Abcam and YCharOS are working together to help address the reproducibility crisis by enabling the life science community to better evaluate commercially available antibodies.



Western blot - Anti-QPRT antibody [EPR11941(B)] (ab171944)

Lane 1: Wild-type HAP1 cell lysate (20 µg)

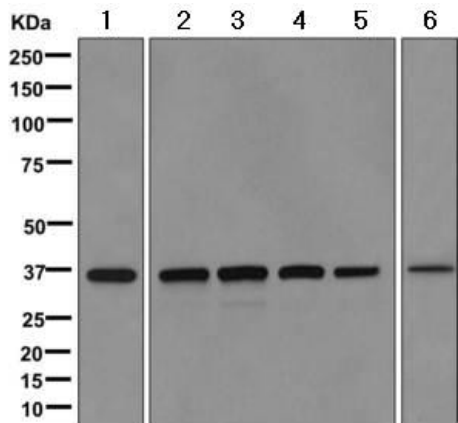
Lane 2: QPRT knockout HAP1 cell lysate (20 µg)

Lane 3: HepG2 cell lysate (20 µg)

Lane 4: Human fetal brain cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab171944 observed at 35 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab171944 was shown to specifically react with QPRT when QPRT knockout samples were used. Wild-type and QPRT knockout samples were subjected to SDS-PAGE. ab171944 and **ab8245** (loading control to GAPDH) were diluted 1/1000 and 1/10 000 respectively and incubated overnight at 4°C. 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 1/10 000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-QPRT antibody [EPR11941(B)] (ab171944)

All lanes : Anti-QPRT antibody [EPR11941(B)] (ab171944) at 1/1000 dilution

Lane 1 : Human fetal kidney tissue lysate

Lane 2 : Human fetal liver tissue lysate

Lane 3 : HepG2 cell lysate

Lane 4 : HeLa cell lysate

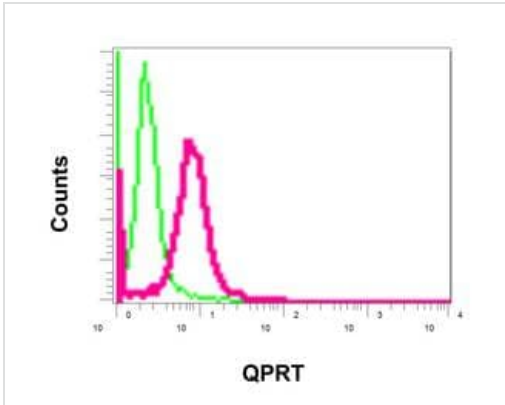
Lane 5 : Jurkat cell lysate

Lane 6 : Human fetal heart tissue lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.





Predicted band size: 31 kDa



Intracellular flow cytometric analysis of permeabilized Jurkat cells labeling QPRT with ab171944 at 1/10 (red) or a rabbit IgG (negative) (green).

Flow Cytometry (Intracellular) - Anti-QPRT antibody [EPR11941(B)] (ab171944)

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-QPRT antibody [EPR11941(B)] (ab171944)

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

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