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## **Human QPRT antibody**

Catalog Number: ATGA0412

## **PRODUCT INFORMATION**

## Catalog number

ATGA0412

#### Clone No.

AT24C4

## **Product type**

Monoclonal Antibody

#### UnitProt No.

Q15274

#### **NCBI Accession No.**

NP 055113

#### **Alternative Names**

Nicotinate nucleotide pyrophosphorylase (carboxylating), Nicotinate nucleotide pyrophosphorylase carboxylating, Quinolinate phosphoribosyltransferase, QPRTase, QAPRTase

## **PRODUCT SPECIFICATION**

### **Antibody Host**

Mouse

#### **Reacts With**

Human

#### **Concentration**

1mg/ml (determined by BCA assay)

### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

## **Immunogen**

Recombinant human QPRT (1-297aa) purified from E. coli

## Isotype

IgG2a kappa

### **Purification Note**

By protein-A affinity chromatography

## **Application**

ELISA, WB, ICC/IF

#### Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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### **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

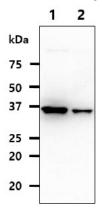
Quinolinate phosphoribosyltransferase, also known as QPRT, is a major enzyme in the catabolism of quinolinate. It is an intermediate in the tryptophannicotinamide adenine dinucleotide (NAD) pathway, leading to the production of nicotinic acid, carbon dioxide and pyrophosphate. Elevation of QPRT levels in the brain has been linked to the pathogenesis of neurodegenerative disorders such as epilepsy, Alzheimer's disease, and Huntington's disease.

### **General References**

Cao H., et al. (2002) Biochemistry. 41(10): 3520-8. Liu H., et al. (2007) J Mol Biol. 373(3): 755-63.

#### **DATA**

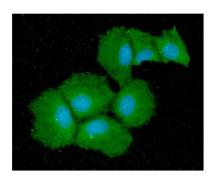
## Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human QPRT antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1 : HepG2 cell lysate Lane 2 : K562 cell lysate

## Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of QPRT in Hep3B cells. The cell was stained with ATGA0412 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

