

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, Quinolate 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.

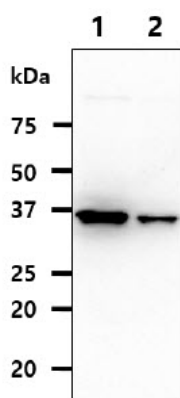
General References

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)

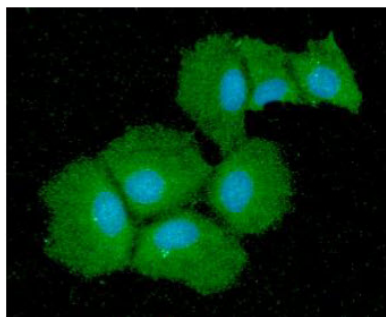


The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human QPRT antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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).