

Human PPCS antibody

Catalog Number: ATGA0443

PRODUCT INFORMATION

Catalog number

ATGA0443

Clone No.

AT10D11

Product type

Monoclonal Antibody

UnitProt No.

Q9HAB8

NCBI Accession No.

NP_078940

Alternative Names

Phosphopantothenate--cysteine ligase, COAB, PPC synthetase

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 PPCS (1-311aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB

Usage

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

Storage

Human PPCS antibody

Catalog Number: ATGA0443

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

PPCS, also known as phosphopantothenate--cysteine ligase, catalyzes the first step in the biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5), which is an essential universal pathway in prokaryotes and eukaryotes. PPCS, one of the last enzymes in this pathway, converts phosphopantothenate to phosphopantothenoylcysteine.

General References

Manoj N., et al. (2003) Structure. 11: 927-936.
Christina Spry., et al. (2009) J Biol Chem. 284: 24904-24913.

DATA

Western blot analysis (WB)



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

Lane 1.: Jurkat cell lysate
Lane 2.: HepG2 cell lysate
Lane 3.: HeLa cell lysate
Lane 4.: A549 cell lysate
Lane 5.: MCF7 cell lysate
Lane 6.: SK-OV-3 cell lysate