Product Information Sheet

Polyclonal Anti-S-adenosylmethionine decarboxylase proenzyme, *SAMDC (Magnetic Bead Conjugate)*

Catalogue No. PA1070-M

Lot No. 05C01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, mouse, rat.
No cross reactivity with other proteins.

Recommended application

immunoprecipitation.(IP)

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of human SAMDC, identical to the related mouse and rat sequence.

Purity

Immunogen affinity purified.

Contents

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN_3.

Storage

Store at 4˚C for frequent use.

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

BACKGROUND

S-adenosylmethionine decarboxylase (AdoMet-DC), also known as S-adenosylmethionine decarboxylase proenzyme (SAMDC), is a key enzyme in polyamine biosynthesis. It is localized to chromosome region 6q21-q22. SAMDC has an unusual distribution in polysomes from cells of T lymphocyte origin. It associates predominantly with monosomes and small polysomes with none located in the preribosomal or ribonucleoprotein pool. SAMDC is a critical regulatory enzyme of the polyamine synthetic pathway, and a well-studied drug target. Since SAMDC is a key regulatory enzyme in the synthesis of spermidine and spermine, the marked increase in SAMDC activity in the neonate and the sustained high enzyme levels throughout adulthood, imply a role for these polyamines in both development and mature brain function.

REFERENCE

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3. Ekstrom JL, Mathews II, Stanley BA, Pegg AE, Ealick SE The crystal structure of human S-adenosylmethionine decarboxylase at 2.25 A resolution reveals a novel fold. Structure. 1999 May; 7(5):583-95.

4. Morrison LD, Becker L, Kish SJ. S-adenosylmethionine decarboxylase in human brain. Regional distribution and influence of aging. Brain Res Dev Brain Res. 1993 Jun 8; 73(2):237-41.

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