

Anti-AMD1 Antibody

Catalog # ABO10554

Specification

Anti-AMD1 Antibody - Product Information

ApplicationIHC, WBPrimary AccessionP17707HostRabbitReactivityHuman, Mouse, RatClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for S-adenosylmethionine decarboxylase proenzyme(AMD1)detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-AMD1 Antibody - Additional Information

Gene ID 262

Other Names S-adenosylmethionine decarboxylase proenzyme, AdoMetDC, SAMDC, 4.1.1.50, S-adenosylmethionine decarboxylase alpha chain, S-adenosylmethionine decarboxylase beta chain, AMD1, AMD

Calculated MW 38340 MW KDa

Application Details Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Protein Name S-adenosylmethionine decarboxylase proenzyme(AdoMetDC/SAMDC)

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human AMD1(315-330aa FNDYNFVFTSFAKKQQ), identical to the related mouse and rat sequences.

Purification Immunogen affinity purified.

Cross Reactivity No cross reactivity with other proteins



Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Anti-AMD1 Antibody - Protein Information

Name AMD1

Synonyms AMD

Function

Essential for biosynthesis of the polyamines spermidine and spermine. Promotes maintenance and self-renewal of embryonic stem cells, by maintaining spermine levels.

Anti-AMD1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- <u>Dot Blot</u>
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-AMD1 Antibody - Images



Anti-AMD1 antibody, ABO10554, IHC(P)IHC(P): Human Mammary Cancer Tissue



130KD - ^{1 2} 100KD -70KD -55KD -35KD -25KD -15KD -

Anti-AMD1 antibody, ABO10554, Western blottingAll lanes: Anti AMD1 (ABO10554) at 0.5ug/mlLane 1: Rat Kidney Tissue Lysate at 50ugLane 2: HELA Whole Cell Lysate at 40ugPredicted bind size: 38KDObserved bind size: 38KD

Anti-AMD1 Antibody - 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.