

**Anti-AMD1 Antibody**  
**Catalog # ABO10554****Specification**

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**Anti-AMD1 Antibody - Product Information**

Application	IHC, WB
Primary Accession	<a href="#">P17707</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit 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<br>Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

**Protein Name**

S-adenosylmethionine decarboxylase proenzyme(AdoMetDC/SAMDC)

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**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 reconstitution, 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

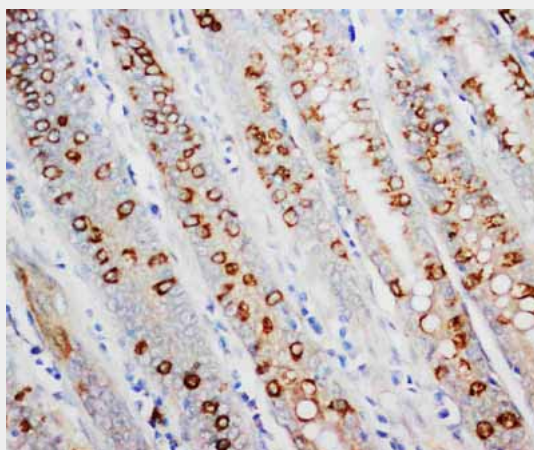
**Function**

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

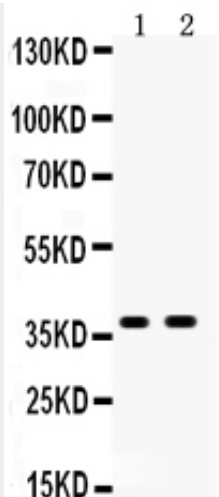
**Anti-AMD1 Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-AMD1 Antibody - Images**

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



Anti-AMD1 antibody, ABO10554, Western blotting All lanes: Anti AMD1 (ABO10554) at 0.5ug/ml Lane 1: Rat Kidney Tissue Lysate at 50ug Lane 2: HELA Whole Cell Lysate at 40ug Predicted bind size: 38KD Observed 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.