OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AP23364PU-N

AMD1 (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: At 1-2µg/ml with the appropriate system to detect SAMDC in cells and tissues. Immunohistochemistry on paraffin sections: At 0.5-1µg/ml to detect SAMDC in formalin fixed and paraffin embedded tissues. Immunohistochemistry on frozen sections: At 0.5-1µg/ml to detect SAMDC in formalin or acetone fixed tissues. Immunocytochemistry: At 2-3µg/ml to detect SAMDC in acetone fixed cell. Antigen retrieval by Pepsin and Trypsin is required.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a sequence at the C-terminal of human SAMDC
Specificity:	This antibody detects AMD1 (C-term). No cross reactivity with other proteins.
Formulation:	5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3 State: Aff - Purified State: Lyophilized Ig fraction
Reconstitution Method:	0.2ml of distilled water will yield a concentration of 500µg/ml.
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	adenosylmethionine decarboxylase 1
Database Link:	Entrez Gene 11702 Mouse Entrez Gene 81640 Rat Entrez Gene 262 Human P17707

View online »

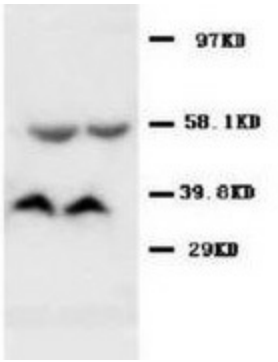
Background: S-adenosylmethionine decarboxylase (AdoMet-DC), also known as S-adenosylmethionine decarboxylase proenzyme (SAMDC), is a key enzyme in polyamine biosynthesis. It is localized to chromosome region 6q21-q22. SAMDC has an unusual distribution in polysomes from cells of T lymphocyte origin. It 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.

Synonyms: AdoMetDC, SAMDC

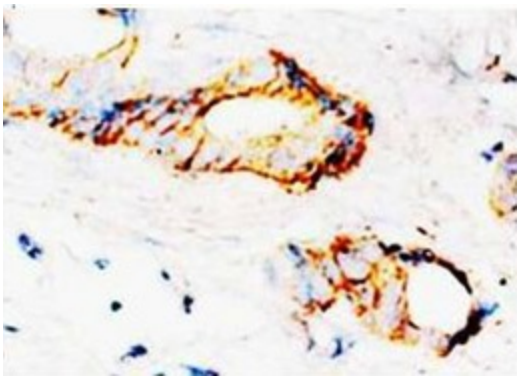
Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Cysteine and methionine metabolism, Metabolic pathways

Product images:



Western blot analysis of rat kidney tissue lysis using SAMDC antibody



Immunohistochemical analysis of paraffin-embedded mammary cancer sections, staining SAMDC in cytoplasm, DAB Chromogenic reaction