

Rabbit AMD1/Adometdc Polyclonal Antibody | anti-AMD1 antibody

Anti-AMD1/Adometdc Antibody

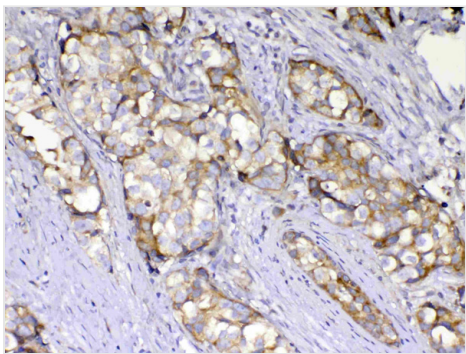
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19177	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

AMD1/Adometdc; Polyclonal Antibody; Anti-AMD1/Adometdc Antibody; S-adenosylmethionine decarboxylase proenzyme; AdoMetDC; SAMDC; 4.1.1.50; anti-AMD1 antibody

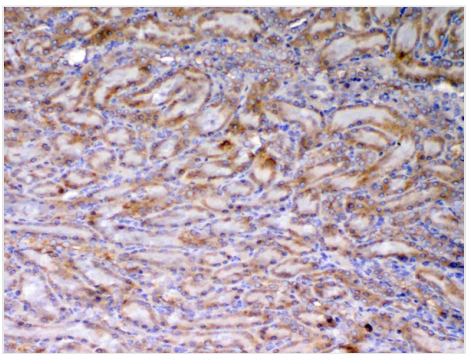
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	186
Applicable Applications for anti-AMD1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	WB: 0.1-0.5μg/ml Immunohistochemistry (Paraffin-embedded Section): 0.5-1μg/ml
Immunogen	A synthetic peptide corresponding to a sequence of human AMD1 (RKNFMKPSHQGYPHRNFQEEIEFLNA).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ .
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



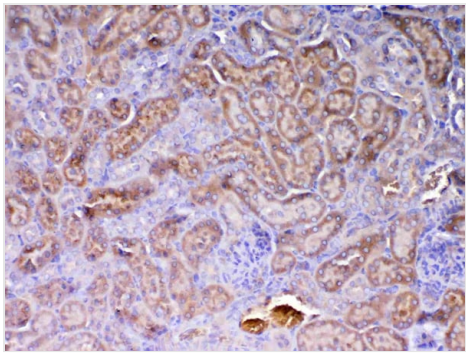
IHC (Immunohistochemistry)

Figure 6. IHC analysis of AMD1 using anti-AMD1 antibody (AAA19177).AMD1 was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-AMD1 Antibody (AAA19177) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



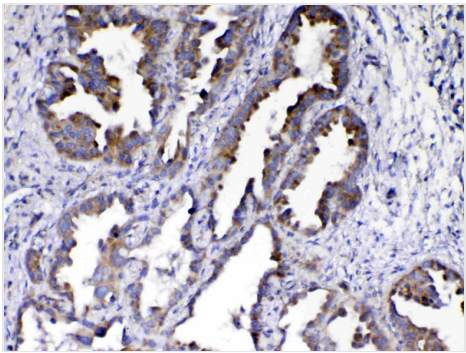
IHC (Immunohistochemistry)

Figure 5. IHC analysis of AMD1 using anti-AMD1 antibody (AAA19177).AMD1 was detected in paraffin-embedded section of rat kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-AMD1 Antibody (AAA19177) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



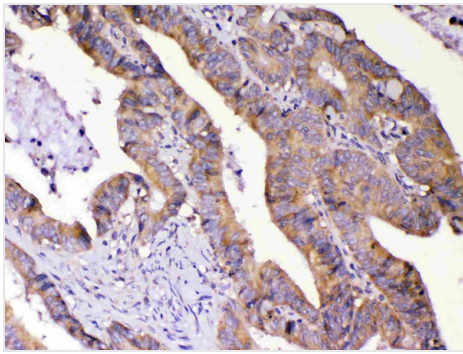
IHC (Immunohistochemistry)

Figure 4. IHC analysis of AMD1 using anti-AMD1 antibody (AAA19177).AMD1 was detected in paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-AMD1 Antibody (AAA19177) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



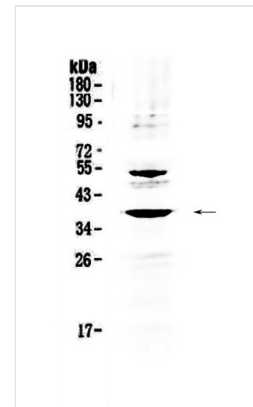
IHC (Immunohistochemistry)

Figure 3. IHC analysis of AMD1 using anti-AMD1 antibody (AAA19177).AMD1 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-AMD1 Antibody (AAA19177) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of AMD1 using anti-AMD1 antibody (AAA19177).AMD1 was detected in paraffin-embedded section of human intestinal cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-AMD1 Antibody (AAA19177) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of AMD1 using anti-AMD1 antibody (AAA19177).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human 22RV1 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-AMD1 antigen affinity purified polyclonal antibody at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for AMD1 at approximately 38KD. The expected band size for AMD1 is at 38KD.

ADDITIONAL INFORMATION

Related Product Information for anti-AMD1 antibody	Description: S-adenosylmethionine decarboxylase (AdoMet-DC), also known as S-adenosylmethionine decarboxylase proenzyme (SAMDC) or AMD1, 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. Protein Function: Essential for biosynthesis of the polyamines spermidine and spermine. Promotes maintenance and self-renewal of embryonic stem cells, by maintaining spermine levels.
Product Categories/Family for anti-AMD1 antibody	Signal Transduction; Metabolism; Energy Metabolism; Cell Biology; Other Antibodies; Metabolism; Pathways and Processes; Metabolic Signaling Pathways; Energy Transfer Pathways; Types of Disease; Cancer

NCBI AND UNIPROT INFORMATION

NCBI GI #	74275346
NCBI GeneID	262
NCBI Accession #	NP_001625.2
NCBI GenBank Nucleotide #	NM_001634.5
UniProt Accession #	P17707; Q5VXN4; Q5VXN6; Q9BWK4; E1P5F7
Molecular Weight	21,301 Da
NCBI Official Full Name	S-adenosylmethionine decarboxylase proenzyme isoform 1
NCBI Official Synonym Full Names	adenosylmethionine decarboxylase 1
NCBI Official Symbol	AMD1
NCBI Official Synonym Symbols	AMD; SAMDC; ADOMETDC

NCBI Protein Information	S-adenosylmethionine decarboxylase proenzyme
UniProt Protein Name	S-adenosylmethionine decarboxylase proenzyme
UniProt Gene Name	AMD1
UniProt Synonym Gene Names	AMD; AdoMetDC; SAMDC

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/amd1-adometdc-antibody-immunohistochemistry-western-blot-elisa/19177>