

Rabbit anti-Mouse Cyt 19/As3mt Polyclonal Antibody | anti-As3mt antibody

Anti-Cyt 19/As3mt Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125740	Rabbit	Mouse	ELISA, Flow Cytometry, Functional Assay, Western Blot

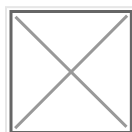
PRODUCT SYNONYMS

Cyt 19/As3mt; Polyclonal Antibody; Anti-Cyt 19/As3mt Antibody; Arsenite methyltransferase; Methylarsonite methyltransferase; S-adenosyl-L-methionine:arsenic(III) methyltransferase; As3mt; Cyt19; arsenite methyltransferase; anti-As3mt antibody

PRODUCT SPECIFICATIONS

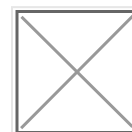
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Cyt 19/As3mt detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-As3mt antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived mouse Cyt 19/As3mt recombinant protein (Position: M1-D346).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of mouse spleen tissues using anti-Cyt 19/As3mt antibody (AAA125740). Overlay histogram showing A431 cells stained with AAA125740 (Blue line). The tissues were blocked with 10% normal goat serum. And then incubated with rabbit anti-Cyt 19/As3mt Antibody (AAA125740, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of Cyt 19/As3mt using anti-Cyt 19/As3mt antibody (AAA125740). 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: mouse liver tissue lysates, Lane 2: mouse heart tissue lysates, Lane 3: mouse Neuro-2a 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-Cyt 19/As3mt antigen affinity purified polyclonal antibody (Catalog # AAA125740) at 0.5µg/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 Cyt 19/As3mt at approximately 44KD. The expected band size for Cyt 19/As3mt is at 42KD.

ADDITIONAL INFORMATION

Related Product Information for anti-As3mt antibody	AS3MT catalyzes the transfer of a methyl group from S-adenosyl-L-methionine (AdoMet) to trivalent arsenical and may play a role in arsenic metabolism. This gene is mapped to chromosome 10q24.
References	1. Hernandez, A., Xamena, N., Sekaran, C., Tokunaga, H., Sampayo-Reyes, A., Quinteros, D., Creus, A., Marcos, R. High arsenic metabolic efficiency in AS3MT-287Thr allele carriers. Pharmacogenet. Genomics 18: 349-355, 2008. 2. Lin, S., Shi, Q., Nix, F. B., Styblo, M., Beck, M. A., Herbin-Davis, K. M., Hall, L. L., Simeonsson, J. B., Thomas, D. J. A novel S-adenosyl-L-methionine:arsenic(III) methyltransferase from rat liver cytosol. J. Biol. Chem. 277: 10795-10803, 2002. 3. Wood, T. C., Salavagionne, O. E., Mukherjee, B., Wang, L., Klumpp, A. F., Thomae, B. A., Eckloff, B. W., Schaid, D. J., Wieben, E. D., Weinshilboum, R. M. Human arsenic methyltransferase (AS3MT) pharmacogenetics: Gene resequencing and functional genomics studies. J. Biol. Chem. 281: 7364-7373, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119392105
NCBI GeneID	57344
NCBI Accession #	NP_065602.2
NCBI GenBank Nucleotide #	NM_020577.2
UniProt Accession #	Q91WU5; Q9QZT1; A6H5W4; E9QLU6
Molecular Weight	41,794 Da
NCBI Official Full Name	arsenite methyltransferase
NCBI Official Synonym Full Names	arsenic (+3 oxidation state) methyltransferase
NCBI Official Symbol	As3mt
NCBI Official Synonym Symbols	Cyt19; 2310045H08Rik
NCBI Protein Information	arsenite methyltransferase; methyltransferase Cyt19; methylarsonite methyltransferase; S-adenosylmethionine:arsenic (III) methyltransferase; S-adenosyl-L-methionine:arsenic(III) methyltransferase
UniProt Protein Name	Arsenite methyltransferase
UniProt Gene Name	As3mt
UniProt Synonym Gene Names	Cyt19
UniProt Entry Name	AS3MT_MOUSE

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.