10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

AS3MT Antibody (N-Terminus)

Goat Polyclonal Antibody
Catalog # ALS13693

Specification

AS3MT Antibody (N-Terminus) - Product Information

Application	**IHC**
Primary Accession	Q9HBK9
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**42kDa KDa**

AS3MT Antibody (N-Terminus) - Additional Information

Gene ID 57412

Other Names
Arsenite methyltransferase, 2.1.1.137, Methylarsonite methyltransferase, S-adenosyl-L-methionine:arsenic(III) methyltransferase, AS3MT, CYT19

Target/Specificity
Human AS3MT.

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
AS3MT Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

AS3MT Antibody (N-Terminus) - Protein Information

Name AS3MT

Synonyms CYT19

Function
Catalyzes the transfer of a methyl group from AdoMet to trivalent arsenicals producing methylated and dimethylated arsenicals (PubMed:16407288, PubMed:25997655). It methylates arsenite to form methylarsonate, Me-AsO(3)H(2), which is reduced by methylarsonate reductase to methylarsonite, Me-As(OH)2 (PubMed:16407288, PubMed:25997655). Methylarsonite is also a substrate and it is converted into the much less toxic compound dimethylarsinate (cacodylate), Me(2)As(O)-OH (PubMed:16407288, PubMed:<a

href="http://www.uniprot.org/citations/25997655" target="_blank">25997655).

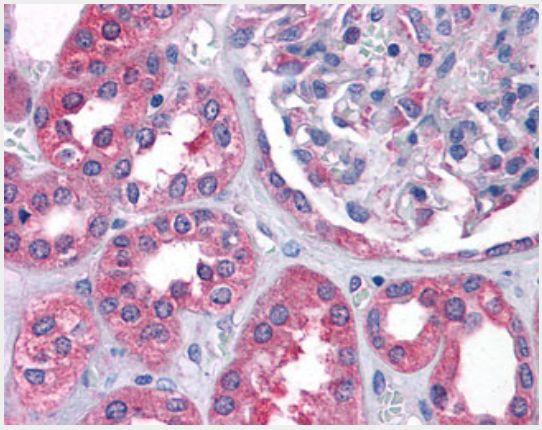
Cellular Location
Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q8VHT6}

AS3MT Antibody (N-Terminus) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AS3MT Antibody (N-Terminus) - Images



Anti-AS3MT antibody IHC of human kidney.

AS3MT Antibody (N-Terminus) - Background

Catalyzes the transfer of a methyl group from AdoMet to trivalent arsenicals producing methylated and dimethylated arsenicals. It methylates arsenite to form methylarsonate, Me- AsO(3)H(2), which is reduced by methylarsonate reductase to methylarsonite, Me-As(OH)2. Methylarsonite is also a substrate and it is converted into the much less toxic compound dimethylarsinate (cacodylate), Me(2)As(O)-OH (By similarity).

AS3MT Antibody (N-Terminus) - References

Wood T.C.,et al.J. Biol. Chem. 281:7364-7373(2006).
Xiao H.,et al.Submitted (JAN-2000) to the EMBL/GenBank/DDBJ databases.
Yu L.,et al.Submitted (DEC-2004) to the EMBL/GenBank/DDBJ databases.
Deloukas P.,et al.Nature 429:375-381(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.