

Rabbit MTR Polyclonal Antibody | anti-MTR antibody

MTR Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329056	Rabbit	Human, Mouse, Rat Predicted Reactivity: Zebrafish(88%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Xenopus(88%)	ELISA

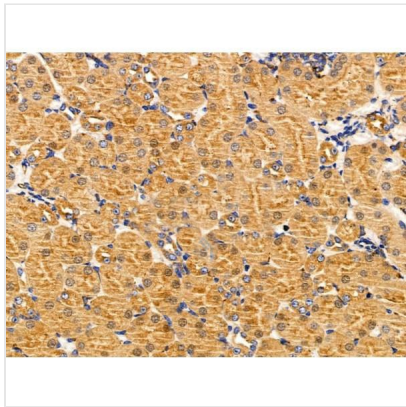
PRODUCT SYNONYMS

MTR; Polyclonal Antibody; MTR Antibody; 5-methyltetrahydrofolate homocysteine methyltransferase; 5-methyltetrahydrofolate-homocysteine methyltransferase; cblG; Methionine synthase; methioninesynthase; MS; MTR1; PRP20; SRM1; Vitamin-B12 dependent methionine synthase; anti-MTR antibody

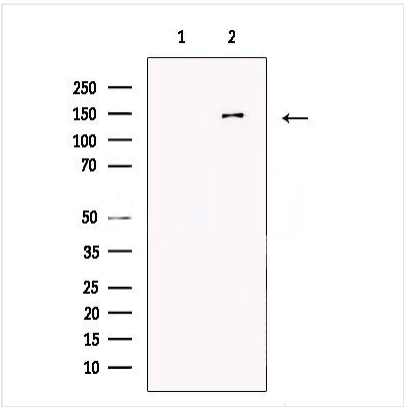
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Zebrafish(88%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Xenopus(88%)
Clonality	Polyclonal
Isotype	IgG
Specificity	MTR Antibody detects endogenous levels of total MTR.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	1265
Applicable Applications for anti-MTR antibody	ELISA
Immunogen	A synthesized peptide derived from human MTR, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA329056 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from Mouse Liver, using MTR Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MTR antibody	Function: Catalyzes the transfer of a methyl group from methyl-cobalamin to homocysteine, yielding enzyme-bound cob(I)alamin and methionine. Subsequently, remethylates the cofactor using methyltetrahydrofolate (By similarity).
	Subcellular Location: Cytoplasm.
	Tissue Specificity: Widely expressed. Expressed at the highest levels in pancreas, heart, brain, skeletal muscle and placenta. Expressed at lower levels in lung, liver and kidney.
	Subunit Structure: Monomer (PubMed:17288554). Dimer (PubMed:17288554). Mainly monomer. Interacts with MTRR (PubMed:17288554).
	Similarity: Modular enzyme with four functionally distinct domains. The isolated Hcy-binding domain catalyzes methyl transfer from free methylcobalamin to homocysteine. The Hcy-binding domain in association with the pterin-binding domain catalyzes the methylation of cob(I)alamin by methyltetrahydrofolate and the methylation of homocysteine. The B12-binding domain binds the cofactor. The AdoMet activation domain binds S-adenosyl-L-methionine. Under aerobic conditions cob(I)alamin can be converted to inactive cob(II)alamin. Reductive methylation by S-adenosyl-L-methionine and flavodoxin regenerates methylcobalamin (By similarity).Belongs to the vitamin-B12 dependent methionine synthase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	169790923
NCBI GeneID	4548
NCBI Accession #	NP_000245.2
NCBI GenBank Nucleotide #	NP_000245.2
UniProt Accession #	Q99707
Molecular Weight	Observed Molecular Weight: (Observed)140kD. Predicted Molecular Weight: (Calculated)141kDa.
NCBI Official Full Name	methionine synthase isoform 1
NCBI Official Synonym Full Names	5-methyltetrahydrofolate-homocysteine methyltransferase
NCBI Official Symbol	MTR
NCBI Official Synonym Symbols	MS; HMAG; cbIG

NCBI Protein Information	methionine synthase
UniProt Protein Name	Methionine synthase
UniProt Gene Name	MTR
UniProt Synonym Gene Names	MS
UniProt Entry Name	METH_HUMAN

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/mtr-antibody-elisa/329056>