MTR Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MTR, Monoclonal Antibody
Full Product Name	MTR (5-Methyltetrahydrofolate-homocysteine Methyltransferase, MTRR, FLJ33168, FLJ43216, FLJ45386) (MaxLight 650)
Product Gene Name	anti-MTR antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1G7
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MTRR.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of proc centrifuge the original vial prior to removing the cap.
OMIM	602568
3D Structure	ModBase 3D Structure for Q9UBK8
Immunogen	Partial recombinant corresponding to aa1-110 from human MTRR (NP_002445) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MRRFLLLYATQQGQAKAIAEEMCEQAVVHGFSADLHCISESDKYDLKTETAPLVVVVSTTGTGDPPDTARKFVKEIQNQTLPVDFFAHLRYGLLGLGDSE
Conjugate	MaxLight650
Product Categories/Family for anti-MTR antibody	Antibodies; Enzymes; Methyltransferase
Applications Tested/Suitable for anti-MTR antibody	FLISA, Western Blot (WB)
Application Notes for anti-MTR antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MTR antibody	MTR catalyses the re-methylation of homocysteine to form methionine. Mutations of MTR have been identified as an underlying cause of methylcobala deficiency complementation group G.

Product References and Citations for anti-MTR antibody	1. Diflavin Oxidoreductases Activate the Bioreductive Prodrug PR-104A under Hypoxia. Guise CP, Abbattista MR, Tipparaju SR, Lambie NK, Su J, Li D Dachs GU, Patterson AV.Mol Pharmacol. 2012 Jan;81(1):31-40. Epub 2011 Oct 7.
Other Notes	Small volumes of anti-MTR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional may apply.
Searchable Terms for MTR purchase	MBS6223310 is an antibody targeting MTR. Also known as MTR (5-Methyltetrahydrofolate-homocysteine Methyltransferase, MTRR, FLJ33168, FLJ43 FLJ45386) (MaxLight 650). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MTR. It may not necessarily be applicable to this product.

NCBI GI #	169790958
NCBI GeneID	4552
NCBI Accession #	NP_002445
UniProt Primary Accession #	Q9UBK8
UniProt Related Accession #	Q9UBK8
GenBank Nucleotide #	NM_002454
NCBI Official Full Name	methionine synthase reductase
NCBI Official Synonym Full Names	5-methyltetrahydrofolate-homocysteine methyltransferase reductase
NCBI Official Symbol	MTRR
NCBI Official Synonym Symbols	MSR; cblE
UniProt Protein Name	Methionine synthase reductase
Protein Family	Mycothione reductase
UniProt Gene Name	MTRR
UniProt Synonym Gene Names	MSR
UniProt Entry Name	MTRR_HUMAN
NCBI Protein Information	methionine synthase reductase
NCBI Summary for MTR	This gene encodes a member of the ferredoxin-NADP(+) reductase (FNR) family of electron transferases. This protein functions in the synthesis of methionine by regenerating methionine synthase to a functional state. Because methionine synthesis requires methyl-group transfer by a folate donor, activity of the encoded enzyme is important for folate metabolism and cellular methylation. Mutations in this gene can cause homocystinuria-megaloblastic anemia, cbl E type. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Dec 2015]
Research Articles on MTR	**1.** Serum Hcy status and Hcy metabolism gene polymorphisms (MTHFR C667T and MTRR A66G) may have synergistic effects on the prevalence of HTN and dyslipidemia.
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