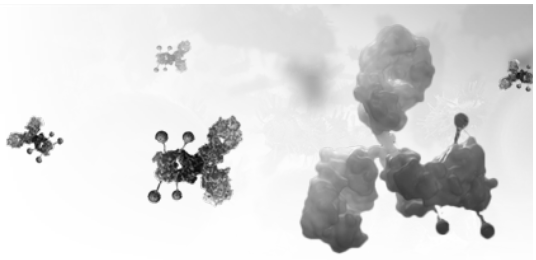

Anti-MTR (aa 1094-1203) polyclonal antibody (DPAB-DC1967)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes the 5-methyltetrahydrofolate-homocysteine methyltransferase. This enzyme, also known as cobalamin-dependent methionine synthase, catalyzes the final step in methionine biosynthesis. Mutations in MTR have been identified as the underlying cause of methylcobalamin deficiency complementation group G. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Immunogen	MTR (NP_000245, 1094 a.a. ~ 1203 a.a) partial recombinant protein with GST tag. The sequence is RDYLGLFAVACFGVEELSKAYEDDGDDYSSIMVKALGDRLAEAFAEELHERVRRELWAYC GSEQLDVADLRRLRYKGIRPAPGYPSQPDHTEKLTMWRLADIEQSTGIRL
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

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Gene Name	MTR 5-methyltetrahydrofolate-homocysteine methyltransferase [Homo sapiens (human)]
Official Symbol	MTR
Synonyms	MTR; 5-methyltetrahydrofolate-homocysteine methyltransferase; MS; HMAG; cblG; methionine synthase; cobalamin-dependent methionine synthase; vitamin-B12 dependent methionine synthase; 5-methyltetrahydrofolate-homocysteine methyltransferase 1;
Entrez Gene ID	4548
Protein Refseq	NP_000245
UniProt ID	Q99707
Chromosome Location	1q43
Pathway	Biological oxidations; Cobalamin (Cbl, vitamin B12) transport and metabolism; Defective AMN causes hereditary megaloblastic anemia 1; Defective CD320 causes methylmalonic aciduria
Function	S-adenosylmethionine-homocysteine S-methyltransferase activity; cobalamin binding; methionine synthase activity; zinc ion binding

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