

Methionine Synthase (D3D6H) Rabbit



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit IgG	UniProt ID: #Q99707	Entrez-Gene Id: 4548
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Methionine Synthase (D3D6H) Rabbit mAb recognizes endogenous levels of total methionine synthase protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro1178 of human methionine synthase protein.				
Background		One-carbon metabolism includes enzymatic reactions involving the transfer of one-carbon groups mediated by folate cofactor. The activated one-carbon groups are used by various metabolic pathways, including purine synthesis, thymidine synthesis, and remethylation of homocysteine to methionine (1). One of the enzymes in one-carbon metabolism, methionine synthase, catalyzes the conversion of 5-methyltetrahydrofolate and homocysteine to tetrahydrofolate and methionine. Methionine is further converted to S-adenosylmethionine (SAM) (1, 2). S-adenosylmethionine (SAM) is a major reactive methyl carrier and plays a critical role in epigenetic regulation (2, 3).				
Background References		1. Ducker, G.S. and Rabinowitz, J.D. (2017) <i>Cell Metab</i> 25, 27-42. 2. Padmanabhan, N. et al. (2013) <i>Cell</i> 155, 81-93. 3. Su, X. et al. (2016) <i>Curr Opin Chem Biol</i> 30, 52-60.				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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