

## Datasheet

### MTRR monoclonal antibody (M01), clone 1G7

**Catalog Number:** H00004552-M01

**Regulation Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against a partial recombinant MTRR.

**Clone Name:** 1G7

**Immunogen:** MTRR (NP\_002445, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Sequence:**

MRRFLLLYATQGGQAKAIAEEMCEQAVVHGFSADLHC  
ISESDKYDLKTETAPLVVVVSTTGTGDPPTARKFVKEI  
QNQTLPVDFFAHLRYGLLGLGDSEYTYFCNGGKI

**Host:** Mouse

**Reactivity:** Human

**Applications:** ELISA, WB-Re

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Isotype:** IgG2a Kappa

**Storage Buffer:** In 1x PBS, pH 7.4

**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 4552

**Gene Symbol:** MTRR

**Gene Alias:** MGC129643, MSR

**Gene Summary:** Methionine is an essential amino acid required for protein synthesis and one-carbon metabolism. Its synthesis is catalyzed by the enzyme methionine synthase. Methionine synthase eventually

becomes inactive due to the oxidation of its cob(I)alamin cofactor. The protein encoded by this gene regenerates a functional methionine synthase via reductive methylation. It is a member of the ferredoxin-NADP(+) reductase (FNR) family of electron transferases. Patients of the cbl-E complementation group of disorders of folate/cobalamin metabolism are defective in reductive activation of methionine synthase. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq]

**References:**

1. Diflavin Oxidoreductases Activate the Bioreductive Prodrug PR-104A under Hypoxia. Guise CP, Abbattista MR, Tipparaju SR, Lambie NK, Su J, Li D, Wilson WR, Dachs GU, Patterson AV. Mol Pharmacol. 2012 Jan;81(1):31-40. Epub 2011 Oct 7.