

Goat Anti-MTHFS Antibody
Peptide-affinity purified goat antibody
Catalog # AF1691a**Specification**

Goat Anti-MTHFS Antibody - Product Information

Application	WB
Primary Accession	P49914
Other Accession	NP_006432 , 10588
Reactivity	Human
Predicted	Mouse
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	23256

Goat Anti-MTHFS Antibody - Additional Information**Gene ID** 10588**Other Names**

5-formyltetrahydrofolate cyclo-ligase, 6.3.3.2, 5, 10-methenyl-tetrahydrofolate synthetase, MTHFS, Methenyl-THF synthetase, MTHFS

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-MTHFS Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-MTHFS Antibody - Protein Information**Name** MTHFS**Function**

Contributes to tetrahydrofolate metabolism. Helps regulate carbon flow through the folate-dependent one-carbon metabolic network that supplies carbon for the biosynthesis of purines, thymidine and amino acids. Catalyzes the irreversible conversion of 5-formyltetrahydrofolate (5-FTHF) to yield 5,10-methenyltetrahydrofolate.

Cellular Location

Cytoplasm.

Goat Anti-MTHFS Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-MTHFS Antibody - Images

AF1691a (0.5 µg/ml) staining of Human Liver lysate (35 µg protein in RIPA buffer) with (B) and without (A) blocking with the immunising peptide. Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-MTHFS Antibody - References

Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.

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Germline polymorphisms in the one-carbon metabolism pathway and DNA methylation in colorectal cancer. Hazra A, et al. Cancer Causes Control, 2010 Mar. PMID 19936946.

Structural basis for the inhibition of human 5,10-methenyltetrahydrofolate synthetase by N10-substituted folate analogues. Wu D, et al. Cancer Res, 2009 Sep 15. PMID 19738041.

An association study of 45 folate-related genes in spina bifida: Involvement of cubilin (CUBN) and tRNA aspartic acid methyltransferase 1 (TRDMT1). Franke B, et al. Birth Defects Res A Clin Mol Teratol, 2009 Mar. PMID 19161160.