

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 <u>NP_006432</u>, <u>10588</u>

Reactivity
Predicted
Host
Clonality
Concentration
Human
Mouse
Goat
Polyclonal
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 lgG/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.



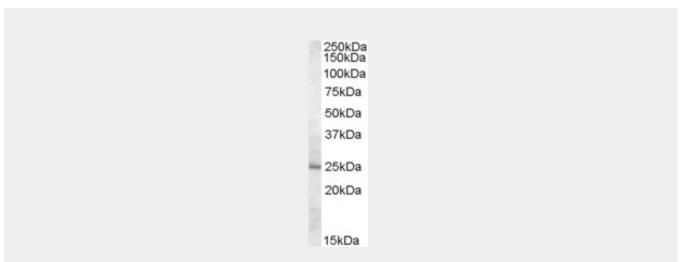
Cellular Location Cytoplasm.

Goat Anti-MTHFS Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Goat Anti-MTHFS Antibody - Images



AF1691a (0.5 μ g/ml) staining of Human Liver lysate (35 μ g 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.

Genetic variation in TYMS in the one-carbon transfer pathway is associated with ovarian carcinoma types in the Ovarian Cancer Association Consortium. Kelemen LE, et al. Cancer Epidemiol Biomarkers Prev, 2010 Jul. PMID 20570913.

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.