

MTHFD1 Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS13165**Specification**

MTHFD1 Antibody (Internal) - Product Information

Application	WB
Primary Accession	P11586
Reactivity	Human, Mouse, Rabbit, Hamster, Monkey, Pig, Horse
Host	Goat
Clonality	Polyclonal
Calculated MW	102kDa KDa

MTHFD1 Antibody (Internal) - Additional Information**Gene ID** 4522**Other Names**

C-1-tetrahydrofolate synthase, cytoplasmic, C1-THF synthase, Methylenetetrahydrofolate dehydrogenase, 1.5.1.5, Methenyltetrahydrofolate cyclohydrolase, 3.5.4.9, Formyltetrahydrofolate synthetase, 6.3.4.3, C-1-tetrahydrofolate synthase, cytoplasmic, N-terminally processed, MTHFD1, MTHFC, MTHFD

Target/Specificity

Human MTHFD1.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

MTHFD1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

MTHFD1 Antibody (Internal) - Protein Information**Name** MTHFD1**Synonyms** MTHFC, MTHFD**Function**

Trifunctional enzyme that catalyzes the interconversion of three forms of one-carbon-substituted tetrahydrofolate: (6R)-5,10- methylene-5,6,7,8-tetrahydrofolate, 5,10-methenyltetrahydrofolate and (6S)-10-formyltetrahydrofolate (PubMed:<[a href="http://www.uniprot.org/citations/1881876" target="_blank">1881876](http://www.uniprot.org/citations/1881876)>, PubMed:<[a href="http://www.uniprot.org/citations/10828945" target="_blank">10828945](http://www.uniprot.org/citations/10828945)>, PubMed:<[a href="http://www.uniprot.org/citations/18767138" target="_blank">18767138](http://www.uniprot.org/citations/18767138)>). These derivatives of tetrahydrofolate are differentially required in nucleotide and amino acid biosynthesis, (6S)-10-formyltetrahydrofolate being required for

purine biosynthesis while (6R)-5,10-methylene-5,6,7,8-tetrahydrofolate is used for serine and methionine biosynthesis for instance (PubMed:25633902, PubMed:18767138).

Cellular Location

Cytoplasm.

Tissue Location

Ubiquitous.

MTHFD1 Antibody (Internal) - 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](#)

MTHFD1 Antibody (Internal) - Images

Antibody (1 ug/ml) staining of Human Substantia Nigra lysate (35 ug protein in RIPA buffer).

MTHFD1 Antibody (Internal) - References

Hum D.W.,et al.J. Biol. Chem. 263:15946-15950(1988).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Heilig R.,et al.Nature 421:601-607(2003).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Gevaert K.,et al.Nat. Biotechnol. 21:566-569(2003).