

Product datasheet for **TA339294**

MTHFD1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB, IHC
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-MTHFD1 antibody: synthetic peptide directed towards the middle region of human MTHFD1. Synthetic peptide located within the following region: CMAKTHLSLSHNPEQKGVPTGFILPIRDIRASVGAGFLYPLVGTMSTMPG
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Protein A purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	101 kDa
Gene Name:	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1
Database Link:	NP_005947 Entrez Gene 4522 Human P11586



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Background:

This gene encodes a protein that possesses three distinct enzymatic activities, 5,10-methylenetetrahydrofolate dehydrogenase, 5,10-methenyltetrahydrofolate cyclohydrolase and 10-formyltetrahydrofolate synthetase. Each of these activities catalyzes one of three sequential reactions in the interconversion of 1-carbon derivatives of tetrahydrofolate, which are substrates for methionine, thymidylate, and de novo purine syntheses. The trifunctional enzymatic activities are conferred by two major domains, an aminoterminal portion containing the dehydrogenase and cyclohydrolase activities and a larger synthetase domain. [provided by RefSeq, Jul 2008]

Synonyms:

MTHFC; MTHFD

Note:

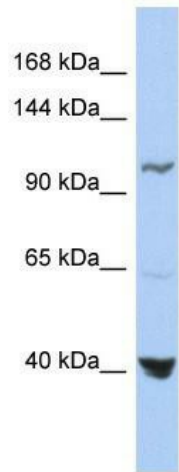
Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Bovine: 93%; Guinea pig: 86%; Yeast: 79%; Zebrafish: 79%

Protein Families:

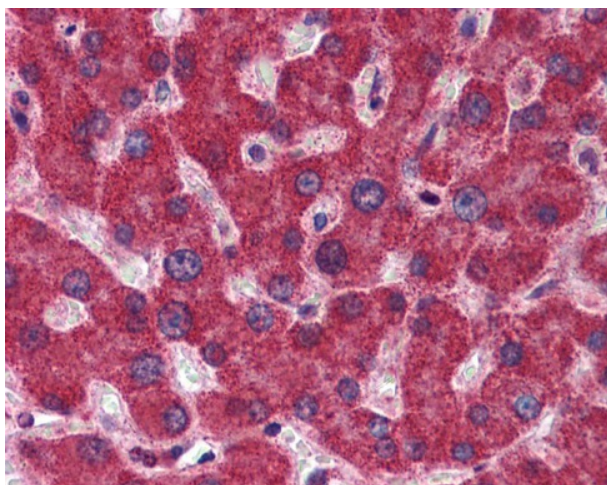
Druggable Genome, Stem cell - Pluripotency

Protein Pathways:

Glyoxylate and dicarboxylate metabolism, Metabolic pathways, One carbon pool by folate

Product images:

WB Suggested Anti-MTHFD1 Antibody Titration:
0.2-1 ug/ml; ELISA Titer: 1: 312500; Positive
Control: OVCAR-3 cell lysate



Liver