亚甲基四氢叶酸脱氢酶抗体

产品货号： mlR17875

英文名称： MTHFD1

中文名称： 亚甲基四氢叶酸脱氢酶抗体

别　　名： 5,10 methylenetetrahydrofolate dehydrogenase 5,10 methylenetetrahydrofolate cyclohydrolase,10 formyltetrahydrofolate synthetase; C 1 tetrahydrofolate synthase cytoplasmic; C1 tetrahydrofolate synthase cytoplasmic; C1 THF synthase; C1-THF synthase; C1TC; C1TC_HUMAN; Cytoplasmic C 1 tetrahydrofolate synthase; Formyltetrahydrofolate synthetase; Methenyltetrahydrofolate cyclohydrolase; Methylenetetrahydrofolate dehydrogenase (NADP+ dependent) methenyltetrahydrofolate cyclohydrolase formyltetrahydrofolate synthetase; Methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1 methenyltetrahydrofolate cyclohydrolase formyltetrahydrofolate synthetase; Methylenetetrahydrofolate dehydrogenase; MTHFC; MTHFD; MTHFD1; NADP dependent cyclohydrolase formyltetrahydrofolate synthetase; OTTHUMP00000180657.

研究领域： 肿瘤　细胞生物　信号转导　新陈代谢

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Cow, Xenopus laevis, Orangutan

产品应用： ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 （石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分 子 量： 110kDa

细胞定位： 细胞浆

性　　状： Lyophilized or Liquid

浓　　度： 1mg/ml

免 疫 原： KLH conjugated synthetic peptide derived from human MTHFD1:51-150/935

亚　　型： IgG

纯化方法： affinity purified by Protein A

储 存 液： 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件： Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed： PubMed

产品介绍： 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]

Subcellular Location:

Cytoplasm.

Tissue Specificity:

Ubiquitous.

DISEASE:

Defects in MTHFD1 may be a cause of susceptibility to folate-sensitive neural tube defects (folate-sensitive NTD) [MIM:601634]. The most common NTDs are open spina bifida (myelomeningocele) and anencephaly. Genetic defects in MTHFD1 may affect the risk of spina bifida via the maternal rather than the embryonic genotype. Genetic variation in MTHFD1 could be associated with susceptibility to colorectal cancer (CRC) [MIM:114500].

Similarity:

In the N-terminal section; belongs to the tetrahydrofolate dehydrogenase/cyclohydrolase family.

In the C-terminal section; belongs to the formate--tetrahydrofolate ligase family.

SWISS:

P11586

Gene ID:

4522

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.