

产品名称: MTHFR Rabbit Polyclonal Antibody  
产品货号: APRab14212



## 产品概述 (Summary)

|                        |                                  |
|------------------------|----------------------------------|
| 产品名称 (Production Name) | MTHFR Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody       |
| 宿主 (Host)              | Rabbit                           |
| 应用 (Application)       | WB,IHC,ELISA                     |
| 种属反应性 (Reactivity)     | Human,Mouse,Monkey               |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Unmodified                                                                                        |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Polyclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | MTHFR                                                                                                    |
| 别名 (Alternative Names) | MTHFR; Methylenetetrahydrofolate reductase                                                               |
| 基因 ID (Gene ID)        | 4524.0                                                                                                   |
| 蛋白 ID (SwissProt ID)   | P42898.The antiserum was produced against synthesized peptide derived from human MTHFR. AA range:314-363 |

## 产品应用 (Application)

|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:500-1:2000,IHC 1:50-1:300,ELISA 1:2000-1:20000 |
| 蛋白分子量 (Molecular Weight) | 75kDa                                               |

## 研究背景 (Background)

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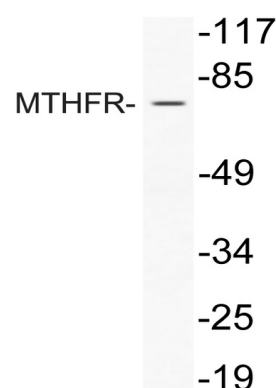


The protein encoded by this gene catalyzes the conversion of 5,10-methylenetetrahydrofolate to 5-methyltetrahydrofolate, a co-substrate for homocysteine remethylation to methionine. Genetic variation in this gene influences susceptibility to occlusive vascular disease, neural tube defects, colon cancer and acute leukemia, and mutations in this gene are associated with methylenetetrahydrofolate reductase deficiency.[provided by RefSeq, Oct 2009],catalytic activity:5-methyltetrahydrofolate + NAD(P)(+) = 5,10-methylenetetrahydrofolate + NAD(P)H.,cofactor:FAD.,disease:Defects in MTHFR are the cause of methylenetetrahydrofolate reductase deficiency (MTHFRD) [MIM:236250]. MTHFRD is autosomal recessive disorder with a wide range of features including homocysteinuria, homocysteinemia [MIM:603174], developmental delay, severe mental retardation, perinatal death, psychiatric disturbances, and later-onset neurodegenerative disorders.,disease:Defects in MTHFR 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.,disease:Defects in MTHFR may be a cause of susceptibility to ischemic stroke [MIM:601367]; also known as cerebrovascular accident or cerebral infarction. A stroke is an acute neurologic event leading to death of neural tissue of the brain and resulting in loss of motor, sensory and/or cognitive function. Ischemic strokes, resulting from vascular occlusion, is considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple genetic and environmental risk factors.,enzyme regulation:Allosterically regulated by S-adenosylmethionine.,function:Catalyzes the conversion of 5,10-methylenetetrahydrofolate to 5-methyltetrahydrofolate, a co-substrate for homocysteine remethylation to methionine.,online information:Methylenetetrahydrofolate reductase entry,online information:The Singapore human mutation and polymorphism database,pathway:One-carbon metabolism; tetrahydrofolate pathway.,polymorphism:Genetic variation in MTHFR influences susceptibility to occlusive vascular disease, neural tube defects (NTD), colon cancer and acute leukemia.,similarity:Belongs to the methylenetetrahydrofolate reductase family.,subunit:Homodimer.,

## 研究领域 (Research Area)

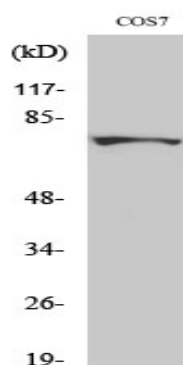
One carbon pool by folate;Methane metabolism;

## 图片 (Image Data)



Western blot analysis of lysate from COLO205 cells treated with Forskolin, using MTHFR antibody.

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Western Blot analysis of various cells using MTHFR Polyclonal Antibody

### 注意事项 (Note)

For research use only .