SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-MTHFR antibody

Catalog Number: SL1484R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	MTHFR
Immunogen:	KLH conjugated synthetic peptide derived from human MTHFR: 165-300/656
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Pig, Cow, Horse)
Predicted MW.:	75kDa
Subcellular Location:	cytoplasmic
Background:	MTHFR 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 neural tube defects, occlusive vascular disease, colon cancer and acute leukemia. Mutations in this gene are associated with methylenetetrahydrofolate reductase deficiency. **Function:** Catalyzes the conversion of 5,10-methylenetetrahydrofolate to 5-methyltetrahydrofolate, a co-substrate for homocysteine remethylation to methionine. **Subunit:** Homodimer. DISEASE: Methylenetetrahydrofolate reductase deficiency (MTHFRD)

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

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	[MIM:236250]: 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. Note=The disease is caused by mutations affecting the gene represented in this entry. Ischemic stroke (ISCHSTR) [MIM:601367]: 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. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry. Folate-sensitive neural tube defects (FS-NTD) [MIM:601634]: The most common NTDs are open spina bifida (myelomeningocele) and anencephaly. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry. **Similarity:** Belongs to the methylenetetrahydrofolate reductase family. **Database links:** **Entrez Gene:** 4524 Human **Entrez Gene:** 17769 Mouse **Entrez Gene:** 362657 Rat Omim: 607093 Human **SwissProt:** P42898 Human **SwissProt:** Q9WU20 Mouse **Unigene:** 214142 Human **Unigene:** 89959 Mouse **Unigene:** 10494 Rat Methylenetetrahydrofolate reductase(methylenetetrahydrofolate reductase,MTHFR)is a key enzyme in folate metabolism,provides methyl groups for various intracellular methylation reactions,and plays an important role in DNA methylation.

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