MTHFR Mouse mAb

CatalogNo: YM0455

Key Features

Host Species
- Mouse

Reactivity
- Human,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 75kD (Calculated)

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:200-1:1000
ELISA 1:10000
IF 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Monoclonal

Immunogen Information

Immunogen	Purified recombinant fragment of human MTHFR expressed in E. Coli.
Specificity	MTHFR Monoclonal Antibody detects endogenous levels of MTHFR protein.

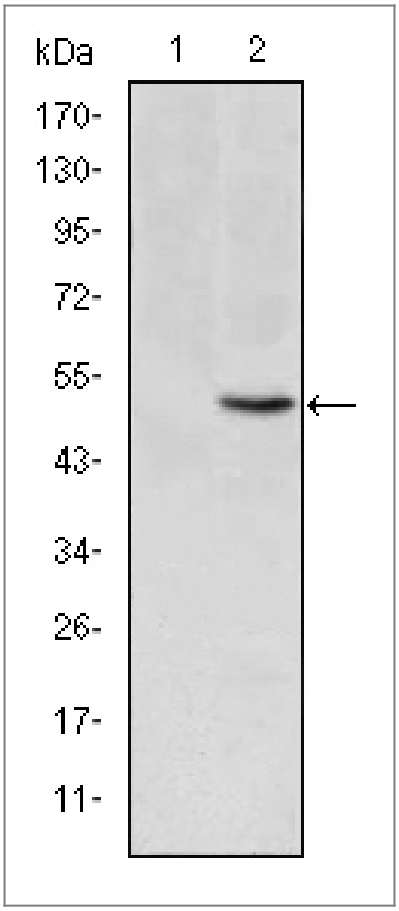
Target Information

Gene name	MTHFR
Protein Name	Methylenetetrahydrofolate reductase

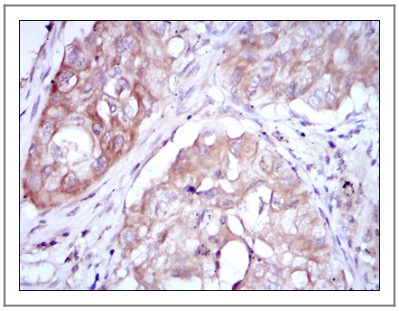
Organism	Gene ID	UniProt ID
Human	4524;	P42898;

Cellular Localization	cytosol,synapse,
Tissue specificity	Brain,Liver,Lung,
Function	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.,

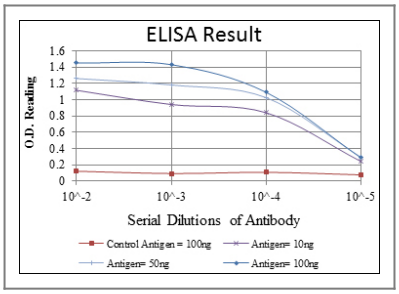
Validation Data



Western Blot analysis using MTHFR Monoclonal Antibody against HEK293 (1) and MTHFR-hIgGFc transfected HEK293 (2) cell lysate.



Immunohistochemistry analysis of paraffin-embedded lung cancer tissues with DAB staining using MTHFR Monoclonal Antibody.



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Please scan the QR code to access additional product information:
MTHFR Mouse mAb