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MTHFR Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1554a

Product Information

Application	WB, IHC, E
Primary Accession	P42898
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Clone Names	5D3
Isotype	IgG1
Calculated MW	74597
Description	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.
Immunogen	Purified recombinant fragment of human MTHFR expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	4524
Other Names	Methylenetetrahydrofolate reductase, 1.5.1.20, MTHFR
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MTHFR Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MTHFR (HGNC:7436)
Function	Catalyzes the conversion of 5,10-methylenetetrahydrofolate to 5-methyltetrahydrofolate, a cosubstrate for homocysteine remethylation to

methionine (PubMed:29891918). Represents a key regulatory connection between the folate and methionine cycles (Probable).

References

1. Kardiol Pol. 2008 Dec;66(12):1269-77. 2. Arq Bras Endocrinol Metabol. 2008 Nov;52(8):1374-81.

Images

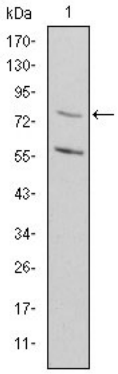

Figure 1: Western blot analysis using MTHFR mouse mAb against Rat Heart cell lysate.

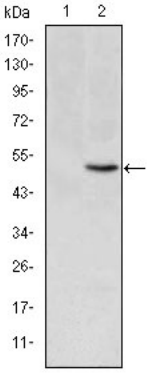

Figure 2: Western blot analysis using MTHFR mAb against HEK293 (1) and MTHFR(AA: 339-499)-hIgGFc transfected HEK293 (2) cell lysate.

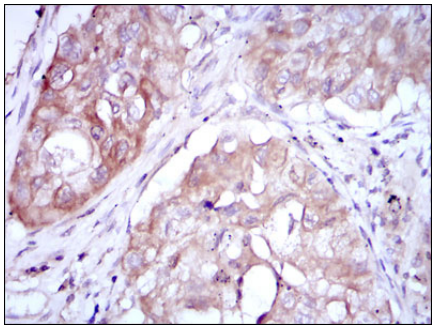

Figure 3: Immunohistochemical analysis of paraffin-embedded lung cancer using MTHFR mouse mAb with DAB staining.

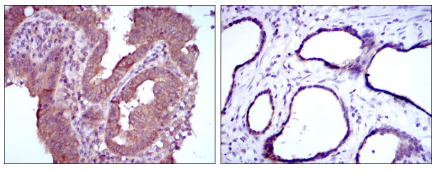

Figure 4: Immunohistochemical analysis of paraffin-embedded intima cancer tissues (left) and prostate tissues (right) using MTHFR mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.