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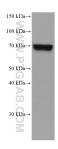
MTHFR Monoclonal antibody

Catalog Number:66612-1-lg 4 Publications



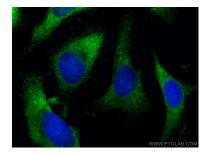
Basic Information	Catalog Number: 66612-1-lg	GenBank Accession Number: BC053509		Purification Method: Protein A purification					
	Size:	GeneID (NCBI):		CloneNo.:					
	150ul , Concentration: 1800 ug/ml by 4524			1F7A3					
	Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	UNIPROT ID: P42898		Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:1000-1:4000					
	Source: Mouse Isotype: IgG2b Immunogen Catalog Number: AG14970	Full Name: 5,10-methylenetetrahydrofolate reductase (NADPH) Calculated MW: 656 aa, 75 kDa							
					Observed MW: 70 kDa				
					Applications	Tested Applications:	Ρ	Positive Controls:	
		WB, IHC, IF/ICC, ELISA	V	WB : LNCaP cells, HeLa cells, HepG2 cells, Jurkat cells					
Cited Applications: IHC : huma WB		HC : human l	n liver tissue,						
Species Specificity: human	IF/ICC : HeLa cells,								
Cited Species: human, rabbit									
Note-IHC: suggested antigen re TE buffer pH 9.0; (*) Alternativ retrieval may be performed wi buffer pH 6.0	ely, antigen								
	5,10-Methylenetetrahydrofolate reductase (MTHFR) is a crucial enzyme in the folate metabolic pathway with a key role in generating methyl groups. MTHFR reduces 5,10-methylenetetrahydrofolate (5,10-methyleneTHF) to 5- methylTHF, the primary carbon donor for methionine production from homocysteine. In humans and mice studies, mutations and polymorphisms in MTHFR are associated with impaired spermatogenesis and male infertility. It has been reported that MTHFR is highly phosphorylated under unperturbed conditions and T34 is the priming phosphorylation site. MTHFR gene has two promoters and isoform (70 kDa and 77 kDa). Although the major form of MTHFR is 77kDa in most tissues, a second isoform of 70kDa was observed after western blotting of human fetal liver and porcine liver. (PMID: 24769206, PMID: 34128976, PMID: 18615588)								
Background Information	methylTHF, the primary carbon donor mutations and polymorphisms in MTH been reported that MTHFR is highly ph phosphorylation site. MTHFR gene has MTHFR is 77kDa in most tissues, a sec	for methionine productio IFR are associated with ir nosphorylated under unper two promoters and isofo ond isoform of 70kDa wa	on from homo mpaired sper erturbed conc orm (70 kDa a s observed a	ofolate (5,10-methyleneTHF) to 5- cysteine. In humans and mice studies, matogenesis and male infertility. It has litions and T34 is the priming Ind 77 kDa). Although the major form of					
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Selected Validation Data





LNCaP cells were subjected to SDS PAGE followed by western blot with 66612-1-1g (MTHFR antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded human liver tissue slide using 66612-1-Ig (MTHFR antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using MTHFR antibody (66612-1-lg, Clone: 1F7A3) at dilution of 1:2000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).