For Research Use Only

MTHFD1L Monoclonal antibody

Catalog Number:68321-1-lg

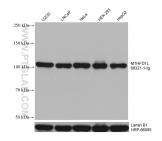


Basic Information	Catalog Number: 68321-1-lg	GenBank Accession Number: BC017477		Purification Method: Protein A purification
	Size: 150ul, Concentration: 1000 ug/ml by Nanodrop; Source: Mouse Isotype: IgG2b Immunogen Catalog Number: AG9061	GeneID (NCBI): 25902 UNIPROT ID:		CloneNo.: 1G1F2 Recommended Dilutions:
		Q6UB35 Full Name: methylenetetrahydrofol dehydrogenase (NADP+ like Calculated MW: 978 aa, 106 kDa Observed MW: 106 kDa	WB: 1:5000-1:50000 IHC: 1:250-1:1000 EC (1950) 10 (0 up por 1006 collector)	
Applications	WB, IHC, FC (Intra), ELISA Species Specificity: human mouse rat rabbit		Positive Controls: WB : U2OS cells, rabbit testis tissue, LNCaP cells, HeLa cells, HEK-293 cells, HepG2 cells, rat testis tissue IHC : mouse liver tissue.	
	Note-IHC: suggested antigen ro TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	etrieval with vely, antigen	HC : mouse (1 TC (Intra) : He	
Background Information	MTHFD1L(Monofunctional C1-tetrahydrofolate synthase, mitochondrial) is also named as FTHFSDC1(Formyltetrahydrofolate synthetase). MTHFD1L enzyme is present in mitochondria from normal embryonic tissues and embryonic fibroblast cell lines, and embryonic mitochondria possess the ability to synthesize formate from glycine. It catalyzes the final step in the mitochondrial conversion of 1-C units to formate in embryos. Moreover, MTHFD1L levels were substantially higher in embryonic mitochondria than in adult liver mitochondria and embryonic mitochondria exhibited greater formate production(PMID:19948730). It has 2 isoforms produced by alternative splicing.			
Storage	Storage: Store at -20°C. Stable for one year after Storage Buffer: PBS with 0.02% sodium azide and 50°			
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20°C st	torage		

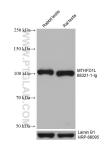
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

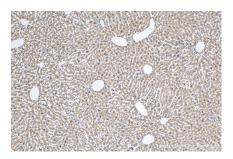
Selected Validation Data



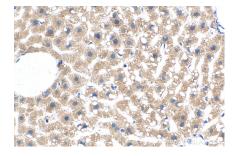
Various lysates were subjected to SDS PAGE followed by western blot with 68321-1-1g (MTHFD1L antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRPconjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



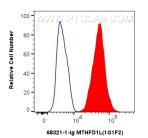
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Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using 68321-1-Ig (MTHFD1L antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using 68321-1-Ig (MTHFD1L antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10^6 HepG2 cells were intracellularly stained with 0.4 ug MTHFD1L Monoclonal antibody (68321-1-lg, Clone:1G1F2) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.4 ug Mouse IgG2b isotype control Mouse McAb (66360-3-lg, Clone: 11B8C4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).