For Research Use Only

MTHFD1L Polyclonal antibody

Catalog Number:16113-1-AP

Featured Product

18 Publications

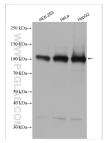


Basic Information	Catalog Number: 16113-1-AP	GenBank Accession Num BC017477	iber:	Purification Method: Antigen affinity purification	
	Size:	GeneID (NCBI):		Recommended Dilutions:	
	150ul , Concentration: 500 µg/ml by Nanodrop and 253 µg/ml by Bradford	25902 Full Name: methylenetetrahydrofolate dehydrogenase (NADP+ dependent) : like		WB 1:2000-1:10000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate 1-IHC 1:50-1:500 IF 1:50-1:500	
	method using BSA as the standard;				
	Source: Rabbit				
	lsotype: IgG	Calculated MW: 978 aa, 106 kDa			
	Immunogen Catalog Number: AG9036	Observed MW: 106 kDa			
Applications	Tested Applications:	Positive Controls:			
	IF, IHC, IP, WB, ELISA Cited Applications:			cells, COLO 320 cells, mouse ovary ells, HepG2 cells	
	IHC, WB		IP: HeLa cells,		
	Species Specificity: IHC : human, mouse, rat		HC : human li	an liver cancer tissue,	
	Cited Species: human, mouse	II	ls,		
	Note-IHC: suggested antigen retrieval with <u>TE buffer pH 9.0;</u> (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
	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 isoform produced by alternative splicing.				
Background Information	FTHFSDC 1(Formyltetrahydrofolate s embryonic tissues and embryonic fib synthesize formate from glycine. It ca in embryos. Moreover, MTHFD1L leve mitochondria and embryonic mitocho	roblast cell lines, and em atalyzes the final step in t ls were substantially high	bryonic mito he mitochon her in embryo	chondria possess the ability to drial conversion of 1-C units to forma nic mitochondria than in adult liver	
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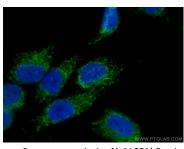
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

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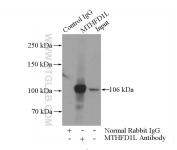
Selected Validation Data



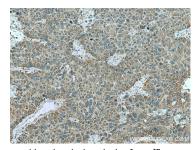
Various lysates were subjected to SDS PAGE followed by western blot with 16113-1-AP (MTHFD1L antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



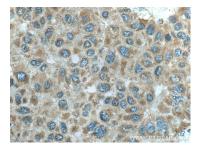
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 16113-1-AP (MTHFD1L antibody) at dilution of 1:100 and Coralite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-MTHFD1L (IP:16113-1-AP, 4ug; Detection:16113-1-AP 1:1000) with HeLa cells lysate 2000ug.



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 16113-1-AP (MTHFD1L antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 16113-1-AP (MTHFD1L antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).