For Research Use Only

MTHFD1 Polyclonal antibody Catalog Number: 10794-1-AP Featured Product 15 P

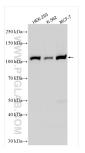
Featured Product 15 Publications



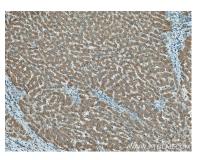
Basic Information	Catalog Number: 10794-1-AP	•		Purification Method: Antigen affinity purification	
	Size:	GenelD (NC	:BI):	Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:200-1:2000 IF/ICC 1:200-1:800	
	450 ug/ml	4522			
	Source: Rabbit	UNIPROT IE P11586):		
	Isotype: IgG Immunogen Catalog Number: AG1225	Full Name: methylener dehydroger methenylte cyclohydrol	tetrahydrofolate nase (NADP+ dependent) etrahydrofolate lase, hydrofolate synthetase		
		-	Calculated MW: 101 kDa Observed MW: 101 kDa		
Applications	Tested Applications:		Positive Cont	trols:	
	WB, IHC, IF/ICC, IP, ELISA		WB : HEK-293 cells, HuH-7 cells, human brain tissue, K		
	WB, IHC, IP IP : mouse Species Specificity: IHC : hum human, mouse IHC : hum Cited Species: tissue		562 cells, mouse kidney tissue, MCF-7 cells		
			IHC : human l	nan liver cancer tissue, human colon cancer	
				207	
	human, mouse		IF/ICC : HEK-293 cells,		
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
Background Information	MTHFD1 is a trifunctional enzyme involved in the pathway tetrahydrofolate interconversion, which is part of One- carbon metabolism. MTHFD1 is associated with HCC and CRC progression. It has been reported that MTHFD- deficient patient fibroblasts exhibit enriched MTHFD1 in the nucleus which is critical for de novo dTMP synthesis. (PMID: 31133746, 30997850, 31421459, 25548164)				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Costas Koufaris	30275950	Cancer Metab	WB	
	Danielle E Anderson	34544865	Proc Natl Acad Sci U	S A WB	
	Li Cui	34533844	J Pineal Res	WB	
Storage	Storage: Store at -20°C. Stable for one ye Storage Buffer: PBS with 0.02% sodium azide a Aliquoting is unnecessary for -2	nd 50% glycerol p			

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

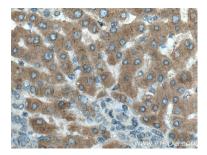
Selected Validation Data



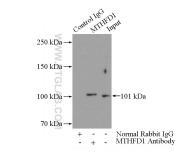
Various lysates were subjected to SDS PAGE followed by western blot with 10794-1-AP (MTHFD1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



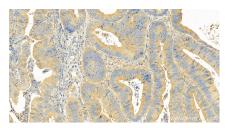
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 10794-1-AP (MTHFD1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



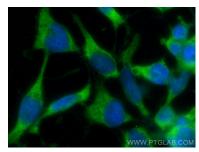
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 10794-1-AP (MTHFD1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-MTHFD1 (IP:10794-1-AP, 5ug; Detection:10794-1-AP 1:600) with mouse kidney tissue lysate 4000ug.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 10794-1-AP (MTHFD1 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using MTHFD1 antibody (10794-1-AP) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).