

For Research Use Only

MTHFD1 Monoclonal antibody

Catalog Number: 67670-1-Ig 2 Publications



Basic Information

Catalog Number: 67670-1-Ig	GenBank Accession Number: BC009806	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 4522	CloneNo.: 2B1G3
Source: Mouse	UNIPROT ID: P11586	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:250-1:1000 IF 1:200-1:800
Isotype: IgG1	Full Name: methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1, methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthetase	
Immunogen Catalog Number: AG24553	Calculated MW: 101 kDa	
	Observed MW: 101 kDa	

Applications

Tested Applications: IF/ICC, IHC, WB, ELISA	Positive Controls:
Cited Applications: WB	WB : U2OS cells, A431 cells, A549 cells, HeLa cells, HEK-293 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells
Species Specificity: Human, Mouse, Rat	IHC : human colon cancer tissue, human liver cancer tissue
Cited Species: human	IF : 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
Changhong Yang	33718182	Front Oncol	WB
Yanjie Gao	37307917	J Biol Chem	WB

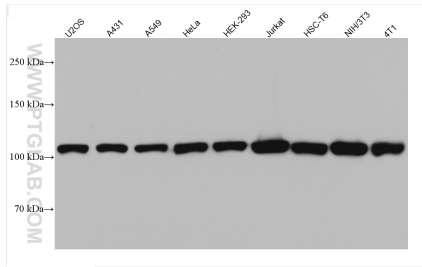
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

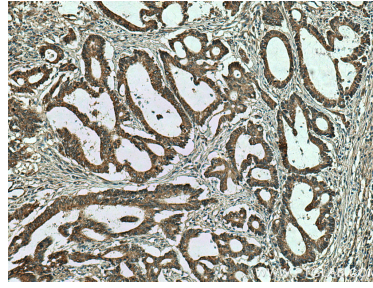
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

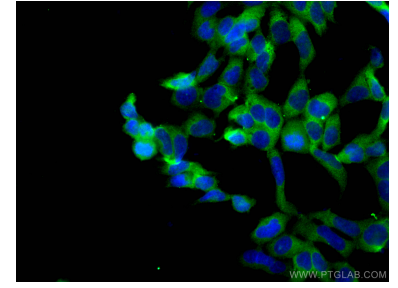
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67670-1-Ig (MTHFD1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67670-1-Ig (MTHFD1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using MTHFD1 antibody (67670-1-Ig, Clone: 2B1G3) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).