For Research Use Only

MTHFD1 Monoclonal antibody

Catalog Number:67670-1-lg Featured Product

2 Publications



Purification Method:

WB: U2OS cells, A431 cells, A549 cells, HeLa cells,

HEK-293 cells, Jurkat cells, HSC-T6 cells, NIH/3T3

Basic Information

Catalog Number: GenBank Accession Number: 67670-1-lg BC009806

Protein G purification GeneID (NCBI): Size: CloneNo.:

150ul, Concentration: 1000 ug/ml by 4522 2B1G3 Nanodrop and 416 ug/ml by Bradford UNIPROT ID: Recommended Dilutions:

method using BSA as the standard; P11586 WB 1:2000-1:10000 Source: IHC 1:250-1:1000 Full Name: Mouse IF/ICC 1:200-1:800 methyl enete trahydro fol ate

dehydrogenase (NADP+ dependent) 1, Isotype:

lgG1 methenyl tetra hydrofolate

cvclohvdrolase. Immunogen Catalog Number:

formyltetrahydrofolate synthetase AG24553

Calculated MW:

101 kDa Observed MW: 101 kDa

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA

Cited Applications:

Species Specificity: IHC: human colon cancer tissue, human liver cancer

Positive Controls:

cells, 4T1 cells

human, mouse, rat tissue

Cited Species: IF/ICC: HEK-293 cells, human

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 Onecarbon metabolism. MTHFD1 is associated with HCC and CRC progression. It has been reported that MTHFDdeficient 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.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

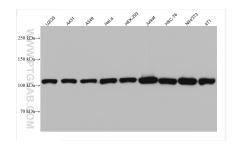
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

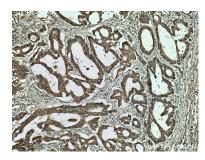
E: proteintech@ptglab.com W: ptglab.com

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

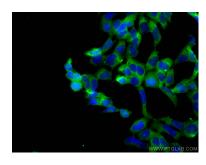
Selected Validation Data



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



Immunohistochemical analysis of paraffinembedded 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 (67670-1-1g, Clone: 2B1G3) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).