

# Product Datasheet

## MTHFD2 Antibody (4G7-2G3) - Azide and BSA Free H00010797-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**H00010797-M01**

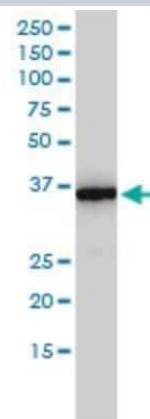
MTHFD2 Antibody (4G7-2G3) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4G7-2G3
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Host	Mouse
Gene ID	10797
Gene Symbol	MTHFD2
Species	Human
Reactivity Notes	Other species not tested.
Specificity/Sensitivity	MTHFD2 - methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase
Immunogen	MTHFD2 (AAH01548, 16 a.a. ~ 344 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. SLRLRPFHLAAVRNEAVVISGRKLAQQIKQEVQRQEEVWVASGNKRPHLSVILV GENPASHSYVLNKTRAAAVVGINSETIMKPASISSEELLNLINKLNDDNDVDGLL VQLPLPEHIDERRICNAVSPDKDVGDFHVINVGRMCLDQYSMLPATPWGVWEII KRTGIPTLGKNVVAGRSKNVGMPIAMLLHTDGAHERPGGDATVTISHRYTPK EQLKKHTILADIVISAAGIPNLITADMIKEGAAVIDVGINRVHDPVTAKPKLVGDVD FEGVRQKAGYITPVPGGVGPMTVAMLMKNTIIAAKKVLRLEEREVLKSKELGVA TN
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500
Application Notes	Antibody reactive against cell lysate and recombinant protein for Western Blot. Has also been used for immunohistochemistry (paraffin) and ELISA.

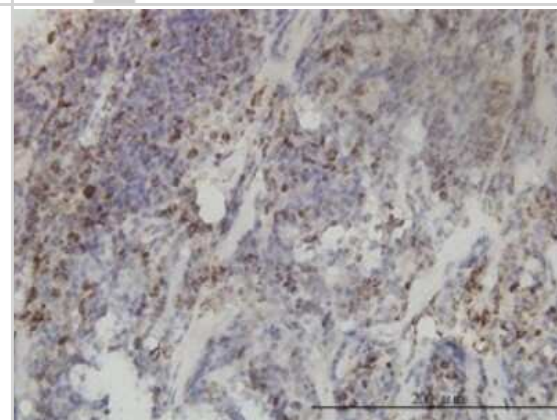


## Images

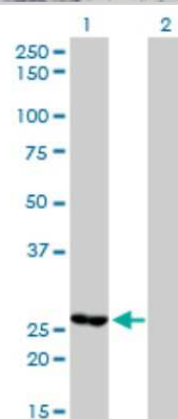
Western Blot: MTHFD2 Antibody (4G7-2G3) [H00010797-M01] - MTHFD2 monoclonal antibody (M01), clone 4G7-2G3 Analysis of MTHFD2 expression in HepG2.



Immunohistochemistry-Paraffin: MTHFD2 Antibody (4G7-2G3) [H00010797-M01] - Analysis of monoclonal antibody to MTHFD2 on formalin-fixed paraffin-embedded human lymphoma tissue. Antibody concentration 3 ug/ml.



Western Blot: MTHFD2 Antibody (4G7-2G3) [H00010797-M01] - Analysis of MTHFD2 expression in transfected 293T cell line by MTHFD2 monoclonal antibody (M01), clone 4G7-2G3. Lane 1: MTHFD2 transfected lysate (26.8 KDa). Lane 2: Non-transfected lysate.



## Publications

Wang Y, Hongu T, Nishimura T et al. Mitochondrial one-carbon metabolic enzyme MTHFD2 facilitates mammary gland development during pregnancy Biochemical and Biophysical Research Communications 2023-06-01 [PMID: 37450958] (IHC-P, Human)

Details:  
1:100 dilution

Sha Y, Luogen P, Omar E et al. One carbon metabolism in human lung cancer. Transl Lung Cancer Res. 2021-06-15 [PMID: 34295659]

Gustafsson Sheppard N, Jarl L, Mahadessian D et al. The folate-coupled enzyme MTHFD2 is a nuclear protein and promotes cell proliferation. Sci Rep 2015-01-01 [PMID: 26461067] (IF/IHC)

Nilsson Roland, Jain Mohit, Madhusudhan Nikhil et al. Metabolic enzyme expression highlights a key role for MTHFD2 and the mitochondrial folate pathway in cancer. Nat Commun. 2014-01-01 [PMID: 24451681] (IF/IHC)



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### **Products Related to H00010797-M01**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP2-51979-0.1mg	Recombinant Human MTHFD2 His Protein

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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