

Rabbit MTHFD1 Polyclonal Antibody | anti-MTHFD1 antibody

MTHFD1 Antibody (Center P550)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285133	Rabbit	Human (Predicted Reactivity: Mouse, Rat)	Immunohistochemistry, Western Blot, ELISA, Immunofluorescence

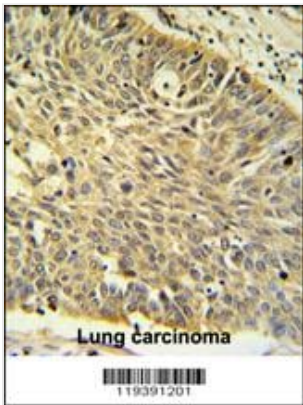
PRODUCT SYNONYMS

MTHFD1; Polyclonal Antibody; MTHFD1 Antibody (Center P550); C-1-tetrahydrofolate synthase; cytoplasmic; C1-THF synthase; Methylenetetrahydrofolate dehydrogenase; Methenyltetrahydrofolate cyclohydrolase; Formyltetrahydrofolate synthetase; N-terminally processed; MTHFC; MTHFD; anti-MTHFD1 antibody

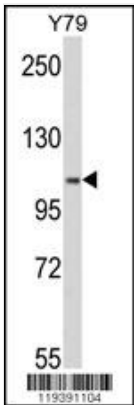
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This MTHFD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 535-562 amino acids from the Central region of human MTHFD1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	535-562
Sequence Length	935
Applicable Applications for anti-MTHFD1 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA, IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

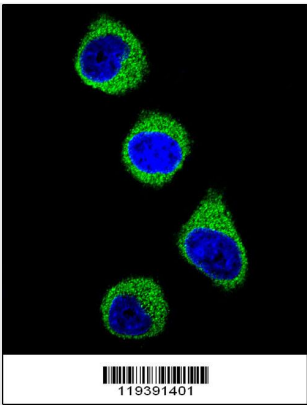
IMAGES



IHC (Immunohistochemisry)
MTHFD1 Antibody (Center P550) IHC analysis in formalin fixed and paraffin embedded human Lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the MTHFD1 Antibody (Center P550) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of MTHFD1 Antibody (Center P550) in Y79 cell line lysates (35ug/lane). MTHFD1 (arrow) was detected using the purified Pab.



IF (Immunofluorescence)
Confocal immunofluorescent analysis of MTHFD1 Antibody (Center P550) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

ADDITIONAL INFORMATION

Related Product Information for anti-MTHFD1 antibody	MTHFD1 is a protein that possesses three distinct enzymatic activities, 5,10-methylenetetrahydrofolate dehydrogenase, 5,10-methenyltetrahydrofolate cyclohydrolase and 10-formyltetrahydrofolate synthetase. Each of these activities catalyzes one of three sequential reactions in the interconversion of 1-carbon derivatives of tetrahydrofolate, which are substrates for methionine, thymidylate, and de novo purine syntheses. The trifunctional enzymatic activities are conferred by two major domains, an aminoterminal portion containing the dehydrogenase and cyclohydrolase activities and a larger synthetase domain.
Product Categories/Family for anti-MTHFD1 antibody	Cell Biology; Metabolism; Signal transduction
References	Ivanov,A., J Am Diet Assoc 109 (2), 313-318 (2009) Schmidt A., Biochemistry 39:6325-6335(2000) Hol F.A., Clin. Genet. 53:119-125(1998)

NCBI AND UNIPROT INFORMATION

NCBI GI #	222136639
NCBI GeneID	4522
NCBI Accession #	NP_005947.3

NCBI GenBank Nucleotide #	NM_005956.3
UniProt Accession #	P11586 ; Q86VC9 ; Q9BVP5 ; B2R5Y2 ; G3V2B8
Molecular Weight	101559
NCBI Official Full Name	C-1-tetrahydrofolate synthase, cytoplasmic
NCBI Official Synonym Full Names	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1, methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthetase
NCBI Official Symbol	MTHFD1
NCBI Official Synonym Symbols	MTHFC; MTHFD
NCBI Protein Information	C-1-tetrahydrofolate synthase, cytoplasmic
UniProt Protein Name	C-1-tetrahydrofolate synthase, cytoplasmic
UniProt Gene Name	MTHFD1
UniProt Synonym Gene Names	MTHFC; MTHFD; C1-THF synthase
UniProt Entry Name	C1TC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mthfd1-antibody-immunohistochemistry-western-blot-immunofluorescence-elisa/285133>