

Rabbit anti-Human, Mouse MTHFD1 Polyclonal Antibody | anti-MTHFD1 antibody

Rabbit anti-MTHFD1 Antibody, Affinity Purified

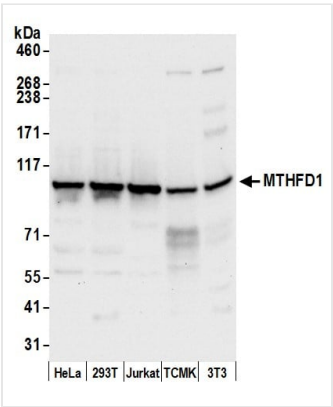
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA213196	Rabbit	Human, Mouse	Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

MTHFD1; Polyclonal Antibody; Rabbit anti-MTHFD1 Antibody; Affinity Purified; Formyltetrahydrofolate synthetase; 5; 10-methylenetetrahydrofolate dehydrogenase; 10-methylenetetrahydrofolate cyclohydrolase; 10-formyltetrahydrofolate synthetase; MTHFC; MTHFD; methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1; methenyltetrahydrofolate cyclohydrolase; formyltetrahydrofolate synthetase; Methylenetetrahydrofolate dehydrogenase; cytoplasmic C-1-tetrahydrofolate synthase; CIMA; C-1-tetrahydrofolate synthase; cytoplasmic; C1-THF synthase; epididymis secretory sperm binding protein; methylenetetrahydrofolate dehydrogenase; cyclohydrolase and formyltetrahydrofolate synthetase 1; anti-MTHFD1 antibody

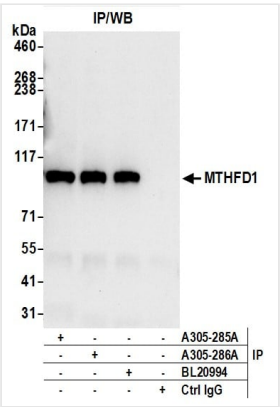
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Purity/Purification	Antigen Affinity Purified
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Concentration	1000ug/ml (varies by lot)
Applicable Applications for anti-MTHFD1 antibody	IP (Immunoprecipitation), WB (Western Blot)
Predicted Reactivity	Rat, Orangutan
Immunogen	Between 150 and 200
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt



WB (Western Blot)

Detection of human and mouse MTHFD1 by western blot. Samples: Whole cell lysate (50 ug) from HeLa, HEK293T, Jurkat, mouse TCMK-1, and mouse NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-MTHFD1 antibody AAA213196 (lot AAA213196-1) used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.



IP (Immunoprecipitation)

Detection of human MTHFD1 by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from 293T cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-MTHFD1 antibody AAA213196 (lot AAA213196-1) used for IP at 6 ug per reaction. MTHFD1 was also immunoprecipitated by rabbit anti-MTHFD1 antibodies and BL20994. For blotting immunoprecipitated MTHFD1, AAA213196 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.

ADDITIONAL INFORMATION

Related Product Information for anti-MTHFD1 antibody	Methylenetetrahydrofolate dehydrogenase (MTHFD1) 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 [taken from NCBI Entrez Gene (Gene ID: 4522)].
Product Categories/Family for anti-MTHFD1 antibody	Primary Antibodies

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	101,559 Da
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; C1-THF synthase; cytoplasmic C-1-tetrahydrofolate synthase; 5,10-methylenetetrahydrofolate dehydrogenase, 5,10-methylenetetrahydrofolate cyclohydrolase, 10-formyltetrahydrofolate synthetase
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-immunoprecipitation-western-blot-elisa/213196>