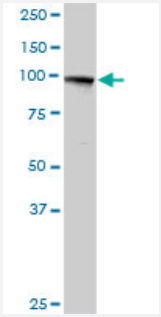
MaxPab®

MTHFD1 MaxPab rabbit polyclonal antibody (D01)

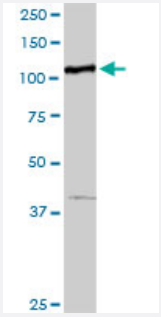
Catalog # H00004522-D01 Size 100 uL

Applications



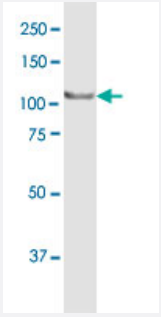
Western Blot (Tissue lysate)

MTHFD1 MaxPab rabbit polyclonal antibody. Western Blot analysis of MTHFD1 expression in human liver.



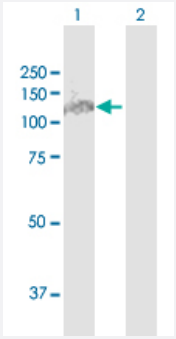
Western Blot (Tissue lysate)

MTHFD1 MaxPab rabbit polyclonal antibody. Western Blot analysis of MTHFD1 expression in mouse liver.



Western Blot (Cell lysate)

MTHFD1 MaxPab rabbit polyclonal antibody. Western Blot analysis of MTHFD1 expression in A-549.



Western Blot (Transfected lysate)

Western Blot analysis of MTHFD1 expression in transfected 293T cell line (H00004522-T02) by MTHFD1 MaxPab polyclonal antibody.

Lane 1: MTHFD1 transfected lysate(101.6 KDa).
Lane 2: Non-transfected lysate.

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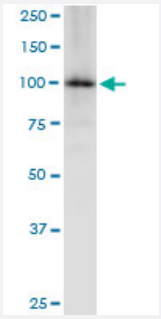

Immunoprecipitation

Immunoprecipitation of MTHFD1 transfected lysate using anti-MTHFD1 MaxPab rabbit polyclonal antibody and Protein A Magnetic Bead, and immunoblotted with MTHFD1 purified MaxPab mouse polyclonal antibody (B01P) (H00004522-B01P).

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human MTHFD1 protein.
Immunogen	MTHFD1 (AAH50420.1, 1 a.a. ~ 935 a.a) full-length human protein.
Sequence	MAPAEILNGKEISAQIRARLKNQVTQLKEQVPGFTPRLAILQVGNRDDSNLYINVKLKAAEEIGIKAT HIKLPRTTTESEVMKYITSLNEDSTVHGFLVQLPLDSENSINTEEVINAIAPEKDVDGLTSINAGRLAR GDLNDCFIPCTPKGCLELIKETGVPIAGRHAVVVGRSKIVGAPMHDLLLWNNATVTTCHSKTAHLD EEVNKGDILVVATGQPEMVKGEWIKPGAIVIDCGINYVPDDKKPNGRKVVGDVAYDEAKERASFIT PVPGGVGPMTVAMLMQSTVESAKRFLEKFKPGKWMIQYNNLNLKTPVPSDIDISRSCKPKPIGKL AREIGLLSEEVELYGETKAKVLLSALERLKHRPDGKYVVVTGITPTPLGEGKSTTTIGLVQALGAHLY QNVFACVRQPSQGPTFGIKGGAAGGGYSQVIPMEEFNLHLTGDIHAITAANNLVAAAIDARIFHELT QTDKALFNRLVPSVNGVRRFSDIQIRRLKRLGIEKTDPTTLTDEEINRFARLDIDPETITWQRVLDTN DRFLRKITIGQAPTEKGHTRTAQFDISVASEIMAVLALTTSLEDMRERLGKMVVASSKKGEPVSAE DLGVSGALTVLMKDAIKPNLMQTLEGTPVFVHAGPFANIAHGNSSIIADRIALKLVGPEGFVVTEAG FGADIGMEKFFNIKCRYSGLCPHVVVLVATVRALKMHGGGPTVTAGLPLPKAYIQENLELVEKGFS NLKKQIENARMFGIPVVVAVNAFKTDTESELDFISRLSREHGAFDAVKCTHWAEGGKGALALAQA VQRAAQAPSSFQLLYDLKLPVEDKIRIIAQKIYGADDIELLPEAQHKAEVYTKQGFGNLPICMAKTHL SLSHNPEQKGVPTGFILPIRDIRASVGAGFLYPLVGTMSTMPGLPTRPCFYDIDLDPETEQVNGLF
Host	Rabbit
Reactivity	Human, Mouse
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	No additive
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

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- Western Blot (Tissue lysate)

  MTHFD1 MaxPab rabbit polyclonal antibody. Western Blot analysis of MTHFD1 expression in human liver.

  Protocol Download

- Western Blot (Tissue lysate)

  MTHFD1 MaxPab rabbit polyclonal antibody. Western Blot analysis of MTHFD1 expression in mouse liver.

  Protocol Download

- Western Blot (Cell lysate)

  MTHFD1 MaxPab rabbit polyclonal antibody. Western Blot analysis of MTHFD1 expression in A-549.

  Protocol Download

- Western Blot (Transfected lysate)

  Western Blot analysis of MTHFD1 expression in transfected 293T cell line (H00004522-T02) by MTHFD1 MaxPab polyclonal antibody.

  Lane 1: MTHFD1 transfected lysate(101.6 KDa).
  Lane 2: Non-transfected lysate.

  Protocol Download

- Immunoprecipitation

  Immunoprecipitation of MTHFD1 transfected lysate using anti-MTHFD1 MaxPab rabbit polyclonal antibody and Protein A Magnetic Bead, and immunoblotted with MTHFD1 purified MaxPab mouse polyclonal antibody (B01P) (H00004522-B01P).

  Protocol Download

Gene Info — MTHFD1

Entrez GeneID	4522
GeneBank Accession#	BC050420.1
Protein Accession#	AAH50420.1
Gene Name	MTHFD1
Gene Alias	MTHFC, MTHFD
Gene Description	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1, methenyltetrahydrofolate cyclo hydrolase, formyltetrahydrofolate synthetase

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Omim ID	172460 601634
Gene Ontology	Hyperlink
Gene Summary	This gene encodes 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. [provided by RefSeq
Other Designations	5,10-methylenetetrahydrofolate dehydrogenase, 5,10-methylenetetrahydrofolate cyclohydrolase, 10-formyltetrahydrofolate synthetase|C1-THF synthase|NADP-dependent cyclohydrolase/formyltetrahydrofolate synthetase|cytoplasmic C-1-tetrahydrofolate synthase|met

Pathway

- Glyoxylate and dicarboxylate metabolism
- Metabolic pathways
- One carbon pool by folate

Disease

- Abortion
- Abruptio Placentae
- Adenocarcinoma
- Alzheimer disease
- Aortic Aneurysm
- Arthritis
- Atherosclerosis
- Bipolar Disorder
- Birth Weight
- Brain Ischemia

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- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Connective Tissue Diseases
- Diabetes Mellitus
- Disease Progression
- DNA Damage
- Ductus Arteriosus
- Edema
- Epilepsy
- Esophageal Neoplasms
- Exfoliation Syndrome
- Fetal Diseases
- Fetal Growth Retardation
- Folic Acid Deficiency
- Genetic Predisposition to Disease
- Glaucoma
- Heart Defects
- Hernia
- Hyperhomocysteinemia

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- Infant
- Infection
- Inflammation
- Laryngeal Neoplasms
- Leukemia
- Lung carcinoma
- Lung Neoplasms
- Metabolic Diseases
- Microsatellite Instability
- Migraine Disorders
- Migraine with Aura
- Musculoskeletal Diseases
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neural Tube Defects
- Ovarian Neoplasms
- Parkinson disease
- Placental Insufficiency
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Schizophrenia
- Skin Diseases
- Spinal Dysraphism

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- Stomach Neoplasms
- Stroke
- Vertebral Artery Dissection

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