

DNAxPAb

Hard-to-Find
Antibody

MTHFD1 DNAxPab

Catalog # H00004522-W01P

Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human MTHFD1 DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MAPAEILNGKEISAIQIRARLKNQVTQLKEQVPGFTPLAILQVGNRDDSNLYINVKLKAAEEIGIKAT HIKLPRTTTESEVMKYITSLNEDSTVHGFLVQLPLDSENSINTEEVINAIPEKDVDGLTSINAGRLAR GDLNDCFIPCTPKGCLELIKETGVPIAGRHAVVVGRSKIVGAPMHDLLLWNNATVTTCHSKTAHLD EEVNKGDILVVATGQPEMVKGWIKPGAVIDCGINYVPDDKKPNRGRKVVGDVAYDEAKERASFIT PVPGGVGPMTVAMLMQSTVESAKRFLEKFKPGKWMIQYNNLNLKTPVPSDIDISRSCKPKPIGKL AREIGLLSEEVELYGETKAKVLLSALERLKHDPDGKYVVVTGITPTPLGEGKSTTTIGLVQALGAHLY QNVFACVRQPSQGPTFGIKGGAAGGGYSQVIPMEEFNLHLTGDIHAITAANNLVAAIDARIFHELT QTDKALFNRLVPSVNGVRRFSDIQIRRLKRLGIEKTDPTTLDEEINRFARLDIDPETITWQRVLDTN DRFLRKITIGQAPTEKGHTRTAQFDISVASEIMAVLALTTSLDMRERLGKMMVASSKKGEPVSAE DLGVSGALTVLMKDAIKPNLMQTLEGTPVFVHAGPFANIAHGNSIIADRIALKLVGPEGFVVTEAG FGADIGMEKFFNIKCRYSGLCPHVVVLVATVRALKMHGGGPTVTAGLPLPKAYIQENLELVEKGFS NLKKQIENARMFGIPVVAVNAFKTDTESELDIFISRLSREHGAFDAVKCTHWAEGGKGALALAQA VQRAAQAPSSFQLLYDLKLPVEDKIRIIAQKIYGADDIELLPEAQHKADEVYTKQGFGNLPICMAKTHL SLSHNPEQKGVPTGFILPIRDIRASVGAGFLYPLVGTMTMTPGLPTRPCFYDIDLDPETEQQVNGLF
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

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 cyclohydrolase, formyltetrahydrofolate synthetase

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](#)
- [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](#)
- [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](#)
- [Stomach Neoplasms](#)
- [Stroke](#)
- [Vertebral Artery Dissection](#)