

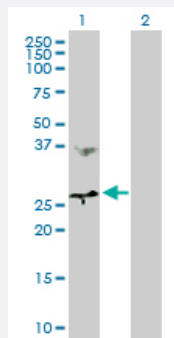
MaxPab®

MTHFD2 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00010797-D01P

Size 100 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of MTHFD2 expression in transfected 293T cell line ([H00010797-T02](#)) by MTHFD2 MaxPab polyclonal antibody.

Lane 1: MTHFD2 transfected lysate(26.80 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human MTHFD2 protein.
Immunogen	MTHFD2 (NP_001035499.1, 1 a.a. ~ 248 a.a) full-length human protein.
Sequence	MKPASISSEELLNLINKLNDDNVDGLLVQLPLPEHIDERRICNAVSPDKDVDGFHVINVGRMCLD QYSMLPATPWGVWEIIKRTGIPTLGKNVVVAGRSKNVGMPIAMLLHTDGAHERPGGDATVTISHRY TPKEQLKKHTILADVISAGIPNLITADMIKEGAVIDVGINRVHDPVTAKPKLVGDVDFEGVRQKA GYTPVPGGVGPMTVAMLMKNTIAAKKVLRLEREVLKSKELGVATN
Host	Rabbit
Reactivity	Human
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.

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[Protocol Download](#)

Gene Info — MTHFD2

Entrez GeneID	10797
GeneBank Accession#	NM_001040409.1
Protein Accession#	NP_001035499.1
Gene Name	MTHFD2
Gene Alias	NMDMC
Gene Description	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase
Omim ID	604887
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a nuclear-encoded mitochondrial bifunctional enzyme with methylenetetrahydrofolate dehydrogenase and methenyltetrahydrofolate cyclohydrolase activities. The enzyme functions as a homodimer and is unique in its absolute requirement for magnesium and inorganic phosphate. Formation of the enzyme-magnesium complex allows binding of NAD. Alternative splicing results in two different transcripts, one protein-coding and the other not protein-coding. This gene has a pseudogene on chromosome 7. [provided by RefSeq]
Other Designations	NAD-dependent methylene tetrahydrofolate dehydrogenase cyclohydrolase methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase methylene tetrahydrofolate dehydrogenase 2

Pathway

- [Glyoxylate and dicarboxylate metabolism](#)

- [Metabolic pathways](#)
- [One carbon pool by folate](#)

Disease

- [Adenocarcinoma](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Heart Defects](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Pulmonary Disease](#)
- [Spinal Dysraphism](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)