Datasheet for ABIN2782515

anti-MTHFD1 antibody (Middle Region)

2 Images

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Overview

Quantity:	100 µL
Target:	MTHFD1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Rabbit, Horse, Zebrafish (Danio rerio), Pig, Dog, Guinea Pig, Cow, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MTHFD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human MTHFD1
Sequence:	CMAKTHLSLS HNPEQKGVPT GFILPIRDIR ASVGAGFLYP LVGTMSTMPG
Predicted Reactivity:	Cow: 93%, Dog: 100%, Guinea Pig: 86%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 100%, Rat: 100%, Yeast: 79%, Zebrafish: 79%
Characteristics:	This is a rabbit polyclonal antibody against MTHFD1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	MTHFD1

Target Details

Alternative Name:	MTHFD1 (MTHFD1 Products)
Background:	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. 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: MTHFC, MTHFD Protein Interaction Partner: UBC, FUS, SUMO2, SUMO3, NEDD8, MDM2, RPA3, RPA2, RPA1, RNF2, RPS21, MAT2A, UBQLN1, FBXO6, UBD, ADRB2, CD81, VCAM1, HSP90AA1, HSP90AB1, PRKCDBP, SFXN1, TMEM165, IARS2, SARS2, SF3B3, FAF2, PPT2, SNRNP70, RPL32, MRPL23, ALDH18A1, PRPH, PC, ICT1, GAA, ACSL3, Protein Size: 935
Molecular Weight:	101 kDa
Gene ID:	4522
NCBI Accession:	NM_005956, NP_005947
UniProt:	P11586
Pathways:	Methionine Biosynthetic Process

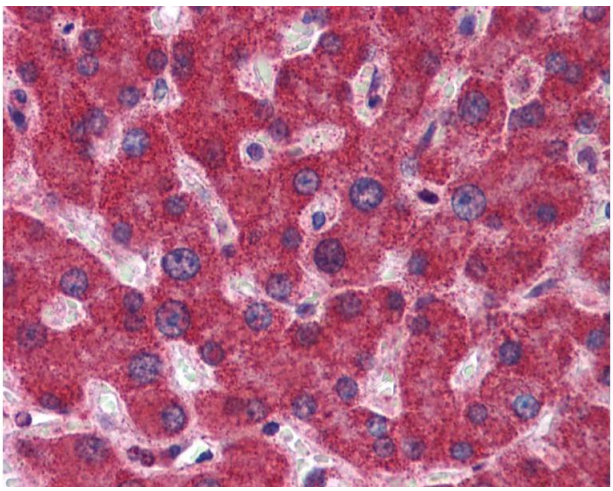
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 935 AA
Restrictions:	For Research Use only

Handling

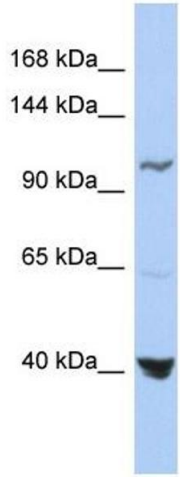
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Immunohistochemistry

Image 1.



Western Blotting

Image 2. WB Suggested Anti-MTHFD1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: OVCAR-3 cell lysate