Datasheet for ABIN7600631

anti-MTHFD1 antibody (AA 21-855)

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Overview

Quantity:	100 µg
Target:	MTHFD1
Binding Specificity:	AA 21-855
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MTHFD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-MTHFD1 Antibody Picoband®
Immunogen:	E.coli-derived human MTHFD1 recombinant protein (Position: K21-Q855).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-MTHFD1 Antibody Picoband® (ABIN7600631). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	MTHFD1
Alternative Name:	MTHFD1 (MTHFD1 Products)
Background:	Synonyms: Tripartite motif-containing protein 6, RING finger protein 89, RING-type E3 ubiquitin transferase TRIM6, TRIM6, RNF89 Tissue Specificity: Isoform 2 is only expressed in skeletal muscle. Isoform 1 is expressed in skeletal muscle, heart, and in lesser extent in liver or pancreas. . Background: Monofunctional C1-tetrahydrofolate synthase, mitochondrial also known as formyltetrahydrofolate synthetase, is an enzyme that in humans is encoded by the MTHFD1L gene (methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1-like). The protein encoded by this gene is involved in the synthesis of tetrahydrofolate (THF) in the mitochondrion. THF is important in the de novo synthesis of purines and thymidylate and in the regeneration of methionine from homocysteine. Several transcript variants encoding different isoforms have been found for this gene.
Molecular Weight:	102 kDa
Gene ID:	4522
UniProt:	P11586
Pathways:	Methionine Biosynthetic Process

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL/mL, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL/mL, Human, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL/mL, Human Immunofluorescence, 5 µg/mL/mL, Human Flow Cytometry (Fixed), 1-3 µg/mL/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL/mL, Human
	1. Christensen, K. E., Patel, H., Kuzmanov, U., Mejia, N. R., MacKenzie, R. E. Disruption of the Mthfd1 gene reveals a monofunctional 10-formyltetrahydrofolate synthetase in mammalian mitochondria. J. Biol. Chem. 280: 7597-7602, 2005. 2. Momb, J., Lewandowski, J. P., Bryant, J. D., Fitch, R., Surman, D. R., Vokes, S. A., Appling, D. R. Deletion of Mthfd1l causes embryonic lethality and neural tube and craniofacial defects in mice. Proc. Nat. Acad. Sci. 110: 549-554, 2013. 3. Prasannan, P., Pike, S., Peng, K., Shane, B., Appling, D. R. Human mitochondrial C(1)-tetrahydrofolate synthase: gene structure, tissue distribution of the mRNA, and immunolocalization in Chinese hamster ovary cells. J. Biol. Chem. 278: 43178-43187, 2003.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.