Datasheet for ABIN7599435

anti-HMGCS2 antibody (AA 1-487)

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Overview

Quantity:	100 µg
Target:	HMGCS2
Binding Specificity:	AA 1-487
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HMGCS2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-HMGCS2 Antibody Picoband®
Immunogen:	E.coli-derived human HMGCS2 recombinant protein (Position: M1-P487).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-HMGCS2 Antibody Picoband® (ABIN7599435). 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:	HMGCS2
Alternative Name:	HMGCS2 (HMGCS2 Products)
Background:	Synonyms: Urokinase-type plasminogen activator, U-plasminogen activator, uPA, Urokinase-type plasminogen activator long chain A, Urokinase-type plasminogen activator short chain A, Urokinase-type plasminogen activator chain B, PLAU Tissue Specificity: Expressed in the prostate gland and prostate cancers. Background: 3-hydroxy-3-methylglutaryl-CoA synthase 2 (mitochondrial) is an enzyme in humans that is encoded by the HMGCS2 gene. The protein encoded by this gene belongs to the HMG-CoA synthase family. It is a mitochondrial enzyme that catalyzes the first reaction of ketogenesis, a metabolic pathway that provides lipid-derived energy for various organs during times of carbohydrate deprivation, such as fasting. Mutations in this gene are associated with HMG-CoA synthase deficiency. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Weight:	50 kDa
Gene ID:	3158
UniProt:	P54868
Pathways:	Response to Growth Hormone Stimulus, Cellular Response to Molecule of Bacterial Origin, Regulation of Lipid Metabolism by PPARalpha

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Aledo, R., Zschocke, J., Pie, J., Mir, C., Fiesel, S., Mayatepek, E., Hoffmann, G. F., Casals, N., Hegardt, F. G. Genetic basis of mitochondrial HMG-CoA synthase deficiency. Hum. Genet. 109: 19-23, 2001. 2. Ayte, J., Gil-Gomez, G., Haro, D., Marrero, P. F., Hegardt, F. G. Rat mitochondrial and cytosolic 3-hydroxy-3-methylglutaryl-CoA synthases are encoded by two different genes. Proc. Nat. Acad. Sci. 87: 3874-3878, 1990. 3. Bouchard, L., Robert, M.-F., Vinarov, D., Stanley, C. A., Thompson, G. N., Morris, A., Leonard, J. V., Quant, P., Hsu, B. Y. L., Boneh, A., Boukaftane, Y., Ashmarina, L., Wang, S., Miziorko, H., Mitchell, G. A. Mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthase deficiency: clinical course and description of causal mutations in two patients.

Application Details

	Pediat. Res. 49: 326-331, 2001.
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.