Datasheet for ABIN7601800

anti-DBT antibody (AA 46-462)

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Overview

Quantity:	100 µg
Target:	DBT
Binding Specificity:	AA 46-462
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DBT antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS), Immunoprecipitation (IP)

Product Details

Purpose:	Anti-DBT Antibody Picoband®
Immunogen:	E.coli-derived human DBT recombinant protein (Position: K46-R462). Human DBT shares 89.7% amino acid (aa) sequence identity with mouse DBT.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-DBT Antibody Picoband® (ABIN7601800). Tested in WB, ICC/IF, IP, Flow Cytometry, ELISA 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.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	DBT
Alternative Name:	DBT (DBT Products)
Target Type:	Viral Protein
Background:	Synonyms: DBT, BCATE2, Lipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, mitochondrial, EC 2.3.1.168, 52 kDa mitochondrial autoantigen of primary biliary cirrhosis, Branched chain 2-oxo-acid dehydrogenase complex component E2, BCOADC-E2, Branched-chain alpha-keto acid dehydrogenase complex component E2, BCKAD-E2, BCKADE2, Dihydrolipoamide acetyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, Dihydrolipoamide branched chain transacylase, Dihydrolipoyllysine-residue, 2-methylpropanoyltransferase Background: The branched-chain alpha-keto acid dehydrogenase complex (BCKD) is an inner-mitochondrial enzyme complex involved in the breakdown of the branched-chain amino acids isoleucine, leucine, and valine. The BCKD complex is thought to be composed of a core of 24 transacylase (E2) subunits, and associated decarboxylase (E1), dehydrogenase (E3), and regulatory subunits. This gene encodes the transacylase (E2) subunit. Mutations in this gene result in maple syrup urine disease, type 2. Alternatively spliced transcript variants have been described, but their biological validity has not been determined.
Molecular Weight:	53 kDa
Gene ID:	1629
UniProt:	P11182

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Immunoprecipitation, 2-4 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL 1. Bogenhagen, D. F., Rousseau, D., Burke, S. The layered structure of human mitochondrial DNA nucleoids. J. Biol. Chem. 283: 3665-3675, 2008. 2. Chi, C.-S., Tsai, C.-R., Chen, L.-H., Lee, H.-F., Mak, B. S.-C., Yang, S.-H., Wang, T.-Y., Shu, S.-G., Chen, C.-H. Maple syrup urine disease in the

Application Details

	Austronesian aboriginal tribe Paiwan of Taiwan: a novel DBT (E2) gene 4.7 kb founder deletion caused by a nonhomologous recombination between LINE-1 and Alu and the carrier-frequency determination. Europ. J. Hum. Genet. 11: 931-936, 2003. 3. Chuang, D. T., Fisher, C. W., Lau, K. S., Griffin, T. A., Wynn, R. M., Cox, R. P. Maple syrup urine disease: domain structure, mutations and exon skipping in the dihydrolipoyl transacylase (E2) component of the branched-chain alpha-keto acid dehydrogenase complex. Molec. Biol. Med. 8: 49-63, 1991.
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.