

DBT Rabbit pAb

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Catalog # AP55460

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P11182
Predicted	Rat, Pig, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53517
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DBT
Epitope Specificity	61-160/482
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Mitochondrion matrix.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	1629
Other Names	Lipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, mitochondrial, 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, BCKDH-E2, Dihydrolipoamide acetyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, Dihydrolipoamide branched chain transacylase, Dihydrolipoalysine-residue (2-methylpropanoyl)transferase, DBT (HGNC:2698)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name DBT ([HGNC:2698](#))

Function The branched-chain alpha-keto dehydrogenase complex catalyzes the overall conversion of alpha-keto acids to acyl-CoA and CO(2). It contains multiple copies of three enzymatic components: branched-chain alpha-keto acid decarboxylase (E1), lipoamide acyltransferase (E2) and lipoamide dehydrogenase (E3). Within this complex, the catalytic function of this enzyme is to accept, and to transfer to coenzyme A, acyl groups that are generated by the branched-chain alpha-keto acid decarboxylase component.

Cellular Location Mitochondrion matrix {ECO:0000250 | UniProtKB:P11181}

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.