

**DBT Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6831c****Specification**

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**DBT Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P11182](#)**DBT Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 1629**Other Names**

Lipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, mitochondrial, 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-methylpropanoyl)transferase, DBT, BCATE2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6831c](/products/AP6831c) was selected from the Center region of human DBT. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**DBT Antibody (Center) Blocking Peptide - 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<sub>2</sub>. 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}

**DBT Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**DBT Antibody (Center) Blocking Peptide - Images****DBT Antibody (Center) Blocking Peptide - Background**

DBT is the transacylase (E2) subunit. 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.

**DBT Antibody (Center) Blocking Peptide - References**

Silao,C.L., et.al., Pediatr Int 50 (3), 312-314 (2008)