

# Recombinant Human DBT 293 Cell Lysate

**Cat. No.** DBT-7061HCL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | Antigen standard for dihydrolipoamide branched chain transacylase E2 (DBT), nuclear gene encoding mitochondrial protein is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.                                                 |
| <b>Components</b>          | This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol). |
| <b>Size</b>                | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b> | Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.                                                                                                                                                                                                                                                                   |

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**Applications**

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

**GENE INFORMATION**
**Gene Name**

DBT dihydrolipoamide branched chain transacylase E2 [ Homo sapiens ]

**Official Symbol**

DBT

**Synonyms**

DBT; dihydrolipoamide branched chain transacylase E2; dihydrolipoamide branched chain transacylase (E2 component of branched chain keto acid dehydrogenase complex; maple syrup urine disease); lipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, mitochondrial; BCKADE2; BCKAD-E2; BCKAD E2 subunit; dihydrolipoyl transacylase; branched chain acyltransferase, E2 component; dihydrolipoyllysine-residue (2-methylpropanoyl)transferase; branched-chain alpha-keto acid dehydrogenase complex component E2; E2 component of branched chain alpha-keto acid dehydrogenase complex; mitochondrial branched chain alpha-keto acid dehydrogenase transacylase subunit (E2b); dihydrolipoamide acetyltransferase component of branched-chain alpha-keto acid dehydrogenase complex; lipoamide acyltransferase component of mitochondrial branched-chain alpha-keto acid dehydrogenase complex; E2; E2B; BCATE2; MGC9061;

**Gene ID**

1629

**mRNA Refseq**

NM\_001918

**Protein Refseq**

NP\_001909

**MIM**

248610

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UniProt ID</b>          | P11182                                                                                                                                                                                                                                                                                                                                                  |
| <b>Chromosome Location</b> | 1p31                                                                                                                                                                                                                                                                                                                                                    |
| <b>Pathway</b>             | 2-oxobutanoate degradation I, organism-specific biosystem; 2-oxobutanoate degradation I, conserved biosystem; Branched-chain amino acid catabolism, organism-specific biosystem; Leucine degradation, leucine =>acetoacetate + acetyl-CoA, organism-specific biosystem; Leucine degradation, leucine => acetoacetate + acetyl-CoA, conserved biosystem; |
| <b>Function</b>            | cofactor binding; dihydrolipoyllysine-residue (2-methylpropanoyl)transferase activity; transferase activity, transferring acyl groups;                                                                                                                                                                                                                  |

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