

Product datasheet for **CF504748**

DBT Mouse Monoclonal Antibody [Clone ID: OTI1G2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1G2
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:2000, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human DBT(NP_001909) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	46.4 kDa
Gene Name:	dihydrolipoamide branched chain transacylase E2
Database Link:	NP_001909 Entrez Gene 13171 Mouse Entrez Gene 29611 Rat Entrez Gene 1629 Human P11182



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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. [provided by RefSeq]

Synonyms:

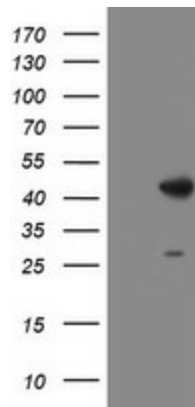
BCATE2; BCKAD-E2; BCKADE2; BCOADC-E2; E2; E2B

Protein Families:

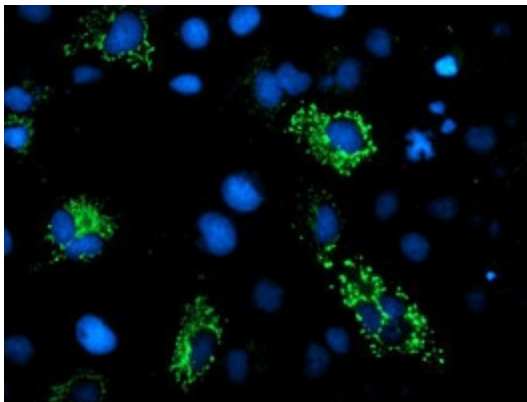
Druggable Genome

Protein Pathways:

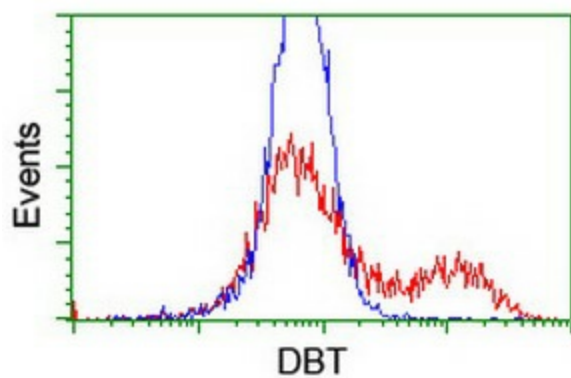
Metabolic pathways, Valine, leucine and isoleucine degradation

Product images:


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DBT (Cat# [RC201998], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DBT (Cat# [TA504748]). Positive lysates [LY419653] (100ug) and [LC419653] (20ug) can be purchased separately from OriGene.



Anti-DBT mouse monoclonal antibody ([TA504748]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY DBT ([RC201998]).



HEK293T cells transfected with either [RC201998] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-DBT antibody ([TA504748]), and then analyzed by flow cytometry.