

[KD Validated] DBT Rabbit mAb

Catalog No.: A25001 **Recombinant**

Basic Information

Observed MW

54KD/54kDa

Calculated MW

53kDa

Category

Primary antibody

Applications

ELISA,WB,IHC-P,IP

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC60670

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.

Recommended Dilutions

WB 1:2000 - 1:10000**IHC-P** 1:50 - 1:200**IP** 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells

Immunogen Information

Gene ID

1629

Swiss Prot

P11182

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 62-247 of DBT (NP_001909.4).

Synonyms

E2; E2B; BCATE2; BCKADE2; BCKAD-E2; BCKDH-E2; BCOADC-E2; [KD Validated] DBT

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

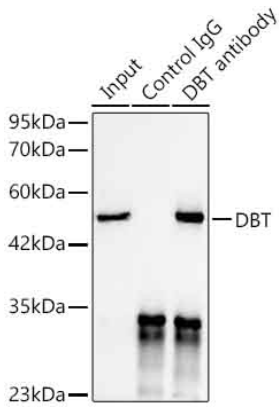
Affinity purification

Storage

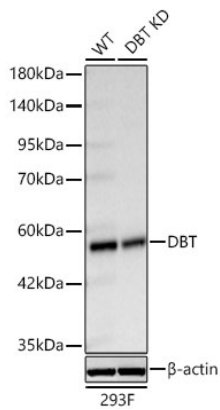
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

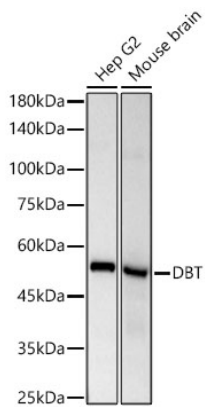
Validation Data



Immunoprecipitation of DBT in 300 µg extracts from Hep G2 cells using 3 µg [KD Validated] DBT Rabbit mAb (A25001). Western blot analysis was performed using [KD Validated] DBT Rabbit mAb (A25001) at 1:5000 dilution.

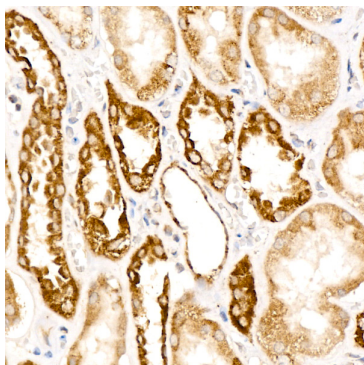


Western blot analysis of lysates from wild type (WT) and DBT knockdown (KD) 293F cells using [KD Validated] DBT Rabbit mAb (A25001) at 1:10000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Western blot analysis of various lysates using [KD Validated] DBT Rabbit mAb (A25001) at 1:6000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.

Validation Data



Immunohistochemistry analysis of DBT in paraffin-embedded human kidney tissue using [KD Validated] DBT Rabbit mAb (A25001) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.