ARG45612
anti-DBT antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes DBT
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	DBT
Species	Human
Immunogen	Recombinant protein containing to human DBT.
Conjugation	Un-conjugated
Alternate Names	DBT; BCATE2; Lipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, mitochondrial; EC 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; Dihydrolipoamide acetyltransferase component of branched-chain alpha-keto acid dehydrogenase complex; Dihydrolipoamide branched chain transacylase; Dihydrolipoyllysine-residue; 2-methylpropanoyltransferase

Application Instructions

Application table

Application	Dilution
FACS	1 - 3 µg/10^6 cells
ICC/IF	5 µg/ml
IP	2-4 µg/ml
WB	0.25-0.5 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

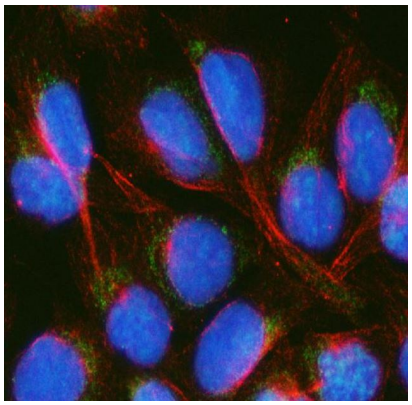
Form	Liquid
Purification	Affinity purified
Buffer	0.2% Na2HPO4, 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

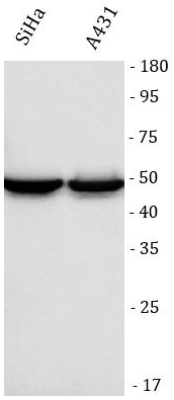
Gene Symbol	DBT
Gene Full Name	Dihydrolipoamide Branched Chain Transacylase E2
Background	The branched-chain alpha-keto acid dehydrogenase complex (BCKD) is an inner-mitochondrial enzyme complex involved in the breakdown of the branched-chain amino acids isoleucine, leucine, and valine. The BCKD complex 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, Jul 2008]
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. [UniProt]
Calculated Mw	53 kDa
PTM	Acetylation; Phosphoprotein. [UniProt]
Cellular Localization	Mitochondrion. [UniProt]

Images



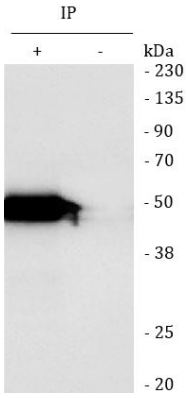
ARG45612 anti-DBT antibody ICC/IF image

Immunofluorescence: U2OS stained with ARG45612 anti-DBT antibody at 5 µg/ml dilution.



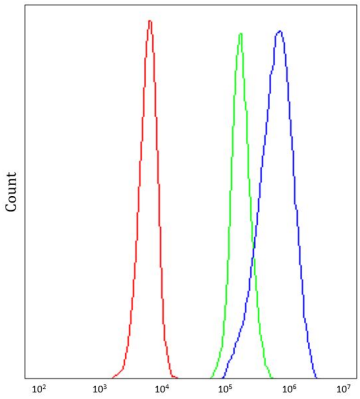
ARG45612 anti-DBT antibody WB image

Western blot: SiHa and A431 stained with ARG45612 anti-DBT antibody at 0.5 µg/ml dilution.



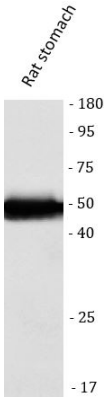
ARG45612 anti-DBT antibody IP image

Immunoprecipitation: A431 lysate immunoprecipitated with 2 µg ARG45612 anti-DBT antibody.



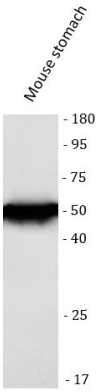
ARG45612 anti-DBT antibody FACS image

Flow Cytometry: SiHa stained with ARG45612 anti-DBT antibody at 1 µg/10^6 cells dilution.



ARG45612 anti-DBT antibody WB image

Western blot: Rat stomach stained with ARG45612 anti-DBT antibody at 0.5 µg/ml dilution.



ARG45612 anti-DBT antibody WB image

Western blot: Mouse stomach stained with ARG45612 anti-DBT antibody at 0.5 µg/ml dilution.