

Anti-BCAT2 Antibody

Catalog # ABO10820

Specification

Anti-BCAT2 Antibody - Product Information

ApplicationWB, IHCPrimary Accession015382HostRabbitReactivityHumanClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for Branched-chain-amino-acid aminotransferase,
mitochondrial(BCAT2) detection. Tested with WB, IHC-P in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-BCAT2 Antibody - Additional Information

Gene ID 587

Other Names Branched-chain-amino-acid aminotransferase, mitochondrial, BCAT(m), 2.6.1.42, Placental protein 18, PP18, BCAT2, BCATM, BCT2, ECA40

Calculated MW 44288 MW KDa

Application Details Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μg/ml, Human, By Heat
Western blot, 0.1-0.5 μg/ml, Human

Subcellular Localization Isoform A: Mitochondrion.

Tissue Specificity Ubiquitous.

Protein Name Branched-chain-amino-acid aminotransferase, mitochondrial(BCAT(m))

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human BCAT2(377-392aa KEIQYGIRAHEWMFPV).



Purification Immunogen affinity purified.

Cross Reactivity No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities Belongs to the class-IV pyridoxal-phosphate-dependent aminotransferase family.

Anti-BCAT2 Antibody - Protein Information

Name BCAT2

Function

Catalyzes the first reaction in the catabolism of the essential branched chain amino acids leucine, isoleucine, and valine (PubMed:17050531, PubMed:25653144, PubMed:25653144, PubMed:8702755). May also function as a transporter of branched chain alpha-keto acids (By similarity).

Cellular Location Mitochondrion {ECO:0000250|UniProtKB:O35854}.

Tissue Location Ubiquitous..

Anti-BCAT2 Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-BCAT2 Antibody - Images



Anti-BCAT2 antibody, ABO10820, Western blottingAll lanes: Anti BCAT2 (ABO10820) at 0.5ug/mlLane 1: A431 Whole Cell Lysate at 40ugLane 2: SW620 Whole Cell Lysate at 40ugLane 3: SMMC Whole Cell Lysate at 40ugLane 4: JURKAT Whole Cell Lysate at 40ugLane 5: CEM Whole Cell Lysate at 40ugPredicted bind size: 41KDObserved bind size: 41KD



Anti-BCAT2 antibody, ABO10820, IHC(P)IHC(P): Human Colon Cancer Tissue Anti-BCAT2 Antibody - Background

BCAT2, branched-chain aminotransferase 2, encodes a branched chain aminotransferase found in mitochondria. The encoded protein forms a dimer that catalyzes the first step in the production of the branched chain amino acids leucine, isoleucine, and valine. Multiple transcript variants encoding different isoforms have been found for this gene. The human BCAT2 gene is mapped to 19q13.