

Anti-BCAT2 Antibody

Catalog # ABO10820

Product Information

Application	WB, IHC-P
Primary Accession	O15382
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit 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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Subcellular Localization	Isoform A: Mitochondrion.
Tissue Specificity	Ubiquitous.
Source	Eukaryota
Protein Name	Branched-chain-amino-acid aminotransferase, mitochondrial(BCAT(m))
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human BCAT2(377-392aa KEIQYGIRAHWMFPV).
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.

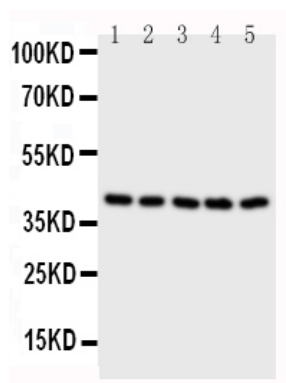
Protein Information

Name	BCAT2 {ECO:0000303 PubMed:31177572, ECO:0000312 HGNC:HGNC:977}
Function	Catalyzes the first reaction in the catabolism of the essential branched chain amino acids leucine, isoleucine, and valine (PubMed: 17050531 , PubMed: 25653144 , PubMed: 8702755). Branched chain amino acid catabolism plays a role in adipocyte differentiation by providing lipogenic acetyl-CoA pools in differentiated adipocytes (By similarity). Mechanistically, acetyl-CoA derived from branched chain amino acid catabolism is used by EP300/p300 to acetylate and inhibit PRDM16, thereby preventing adipose tissue browning (By similarity). May also function as a transporter of branched chain alpha-keto acids (By similarity).
Cellular Location	Mitochondrion {ECO:0000250 UniProtKB:O35854}.
Tissue Location	Ubiquitous..

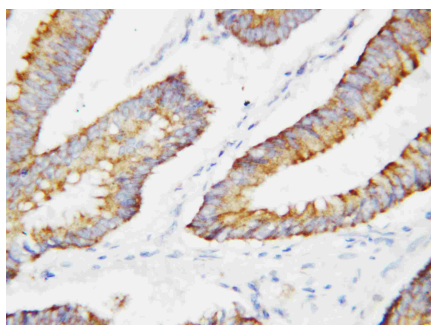
Background

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.