

### **BCAT2 Antibody (C-term)**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP12896b

#### **Specification**

## **BCAT2 Antibody (C-term) - Product Information**

Application IHC-P, WB,E Primary Accession 015382

Other Accession NP 001158245.1, NP 001181.2

Reactivity
Host
Clonality
Polyclonal
Isotype
Calculated MW
Antigen Region

Human
Rabbit
Polyclonal
Rabbit IgG
A4288
309-336

#### **BCAT2 Antibody (C-term) - Additional Information**

#### Gene ID 587

#### **Other Names**

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

### Target/Specificity

This BCAT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 309-336 amino acids from the C-terminal region of human BCAT2.

#### **Dilution**

IHC-P~~1:10~50 WB~~1:1000

E~~Use at an assay dependent concentration.

#### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

#### **Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

BCAT2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### **BCAT2 Antibody (C-term) - Protein Information**

### Name BCAT2





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

**Cellular Location** 

Mitochondrion {ECO:0000250|UniProtKB:O35854}.

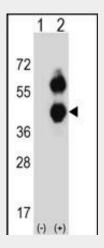
**Tissue Location** Ubiquitous..

## **BCAT2 Antibody (C-term) - Protocols**

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

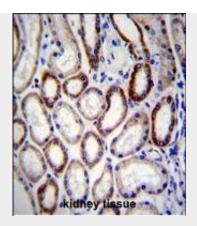
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## BCAT2 Antibody (C-term) - Images



Western blot analysis of BCAT2 (arrow) using rabbit polyclonal BCAT2 Antibody (C-term) (Cat. #AP12896b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the BCAT2 gene.





BCAT2 Antibody (C-term) (Cat. #AP12896b)immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of BCAT2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

# BCAT2 Antibody (C-term) - Background

This gene 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.

## **BCAT2 Antibody (C-term) - References**

Coles, S.J., et al. Biochemistry 48(3):645-656(2009)
Yennawar, N.H., et al. J. Biol. Chem. 281(51):39660-39671(2006)
Goto, M., et al. J. Biol. Chem. 280(44):37246-37256(2005)
Conway, M.E., et al. Biochemistry 43(23):7356-7364(2004)
Yennawar, N., et al. Acta Crystallogr. D Biol. Crystallogr. 57 (PT 4), 506-515 (2001):