

**BCAT1 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP10147c****Specification**

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**BCAT1 Antibody (Center) Blocking peptide - Product Information**

Primary Accession [P54687](#)  
Other Accession [NP\\_001171563.1](#), [NP\\_001171562.1](#),  
[NP\\_005495.2](#), [NP\\_001171564.1](#),  
[NP\\_001171565.1](#)

**BCAT1 Antibody (Center) Blocking peptide - Additional Information**

**Gene ID** 586

**Other Names**

Branched-chain-amino-acid aminotransferase, cytosolic, BCAT(c), Protein ECA39, BCAT1, BCT1, ECA39

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**BCAT1 Antibody (Center) Blocking peptide - Protein Information**

**Name** BCAT1

**Synonyms** BCT1, ECA39

**Function**

Catalyzes the first reaction in the catabolism of the essential branched chain amino acids leucine, isoleucine, and valine.

**Cellular Location**

Cytoplasm.

**Tissue Location**

During embryogenesis, expressed in the brain and kidney. Overexpressed in MYC-induced tumors such as Burkitt's lymphoma

## **BCAT1 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

## **BCAT1 Antibody (Center) Blocking peptide - Images**

## **BCAT1 Antibody (Center) Blocking peptide - Background**

This gene encodes the cytosolic form of the enzyme branched-chain amino acid transaminase. This enzyme catalyzes the reversible transamination of branched-chain alpha-keto acids to branched-chain L-amino acids essential for cell growth. Two different clinical disorders have been attributed to a defect of branched-chain amino acid transamination: hypervalinemia and hyperleucine-isoleucinemia. As there is also a gene encoding a mitochondrial form of this enzyme, mutations in either gene may contribute to these disorders. Alternatively spliced transcript variants have been described.

## **BCAT1 Antibody (Center) Blocking peptide - References**

Eijgelsheim, M., et al. Hum. Mol. Genet. 19(19):3885-3894(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Barber, M.J., et al. PLoS ONE 5 (3), E9763 (2010) :Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)