

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

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)