10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

BCAT1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10147c

Specification

BCAT1 Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P54687
Other Accession	P54690, P24288, NP_001171563.1, NP_001171562.1, NP_005495.2, NP_001171564.1, NP_001171565.1, Q9GKM4
Reactivity	**Human**
Predicted	**Mouse, Rat, Sheep**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**42966**
Antigen Region	**81-107**

BCAT1 Antibody (Center) - Additional Information

Gene ID 586

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

Target/Specificity
This BCAT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 81-107 amino acids from the Central region of human BCAT1.

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

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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
BCAT1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

BCAT1 Antibody (Center) - Protein Information

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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.

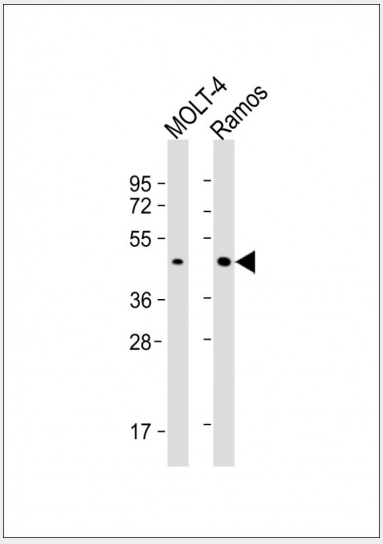
Tissue Location
During embryogenesis, expressed in the brain and kidney. Overexpressed in MYC-induced tumors such as Burkitt's lymphoma

BCAT1 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BCAT1 Antibody (Center) - Images



All lanes : Anti-BCAT1 Antibody (Center) at 1:1000 dilution Lane 1: MOLT-4 whole cell lysate Lane 2: Ramos whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 43 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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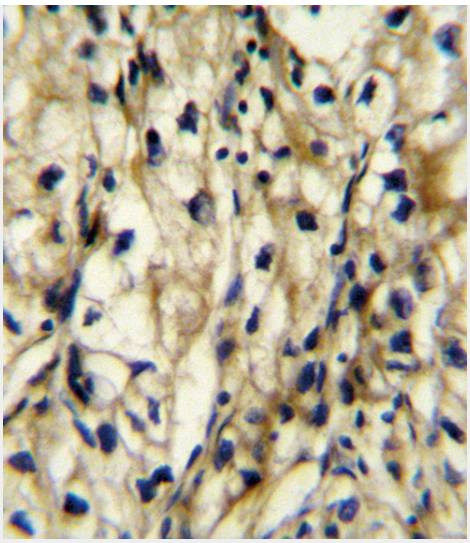

BCAT1 Antibody (Center) (Cat. #AP10147c) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the BCAT1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

BCAT1 Antibody (Center) - 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) - 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)