

# Human BCAT1 antibody

Catalog Number: ATGA0359

## PRODUCT INFORMATION

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**Catalog number**

ATGA0359

**Clone No.**

AT3C8

**Product type**

Monoclonal Antibody

**UnitProt No.**

P54687

**NCBI Accession No.**

NP\_005495

**Alternative Names**

Branched chain amino-acid transaminase cytosolic, Branched chain amino-acid transaminase, cytosolic, BCATC, BCT1, ECA39, MECA39, PNAS121, PP18

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human BCAT1 (1-386aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB

**Usage**

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

BCAT1, also known as branched chain amino-acid transaminase (cytosolic form), 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. BCAT1 is expressed in the brain and kidney. Overexpressed in MYC-induced tumors such as Burkitt's lymphoma.

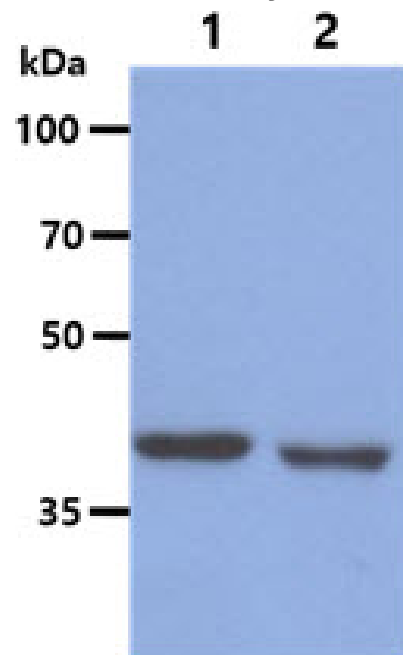
### General References

Goto M., et al. (2005) J Biol Chem. 280: 37246-37256.

Schuldiner O., et al. (1996) Proc Natl Acad Sci USA. 93: 7143-7148.

## DATA

### Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human BCAT1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1. : Jurkat cell lysate

Lane 2. : HeLa cell lysate