

KD-Validated Anti-BCAT1 Mouse Monoclonal Antibody
Mouse monoclonal antibody
Catalog # AGI2010**Specification****KD-Validated Anti-BCAT1 Mouse Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	P54687
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2a
Calculated MW	Predicted, 43 kDa, observed, 43 kDa kDa
Gene Name	BCAT1
Aliases	BCAT1; Branched Chain Amino Acid Transaminase 1; BCATc; BCT1; Branched-Chain-Amino-Acid Aminotransferase, Cytosolic; Branched Chain Aminotransferase 1, Cytosolic; EC 2.6.1.42; ECA39; Branched Chain Amino-Acid Transaminase 1, Cytosolic; Placental Protein 18; Protein ECA39; PNAS121; BCAT(C); MECA39; PP18
Immunogen	Recombinant protein of human BCAT1

KD-Validated Anti-BCAT1 Mouse Monoclonal Antibody - Additional Information

Gene ID	586
Other Names	
Branched-chain-amino-acid aminotransferase, cytosolic, BCAT(c), 2.6.1.42, BCAT1, BCT1, ECA39 {ECO:0000303 PubMed:8692959}	

KD-Validated Anti-BCAT1 Mouse Monoclonal Antibody - Protein Information**Name** BCAT1**Synonyms** BCT1, ECA39 {ECO:0000303|PubMed:8692959}**Function**

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

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P54690}.

Tissue Location

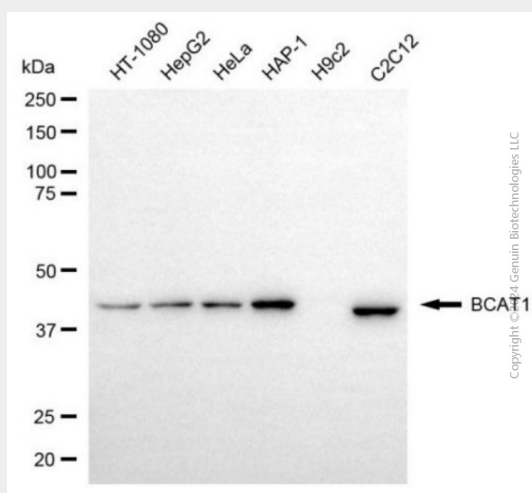
During embryogenesis, expressed in the brain and kidney. Overexpressed in MYC-induced tumors such as Burkitt's lymphoma

KD-Validated Anti-BCAT1 Mouse Monoclonal Antibody - Protocols

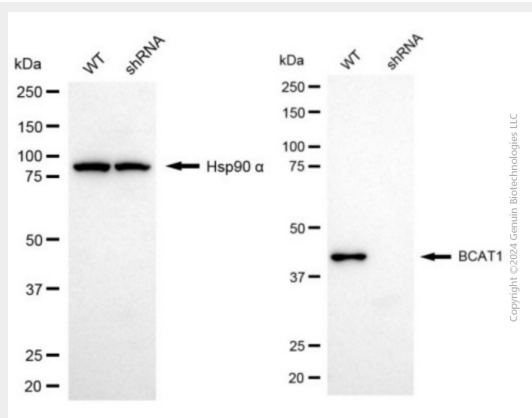
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-BCAT1 Mouse Monoclonal Antibody - Images

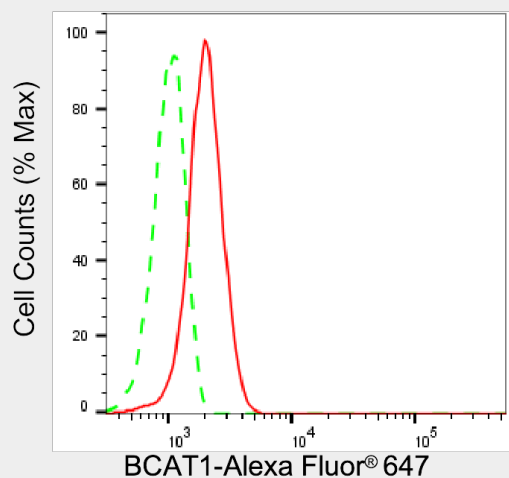


Western blotting analysis using anti-BCAT1 antibody (Cat#63802). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-BCAT1 antibody (Cat#63802, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (Cat#101, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).



Western blotting analysis using anti-BCAT1 antibody (Cat#63802). BCAT1 expression in wild type (WT) and BCAT1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-BCAT1 antibody (Cat#63802, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (Cat#101, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).

was developed using NaQ™ ECL Substrate Kit (Cat#716).



Flow cytometric analysis of BCAT1 expression in C2C12 cells using anti-BCAT1 antibody (Cat#63802, 1:1,000). Green, isotype control; red, BCAT1.