

Rabbit BCAT1 Polyclonal Antibody | anti-BCAT1 antibody

Anti-BCAT1 Antibody Picoband

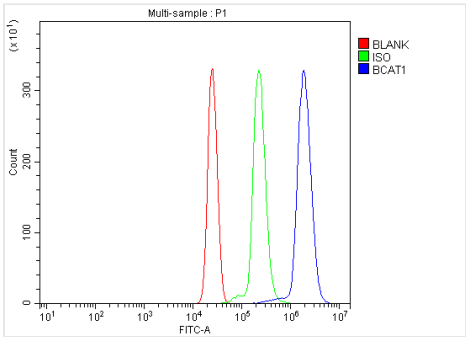
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126409	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

BCAT1; Polyclonal Antibody; Anti-BCAT1 Antibody Picoband; anti-BCAT1 antibody

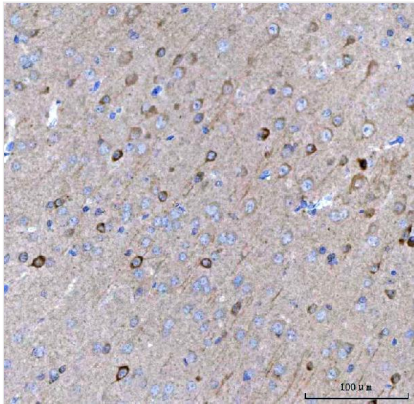
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-BCAT1 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human BCAT1 recombinant protein (Position: L88-S386).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



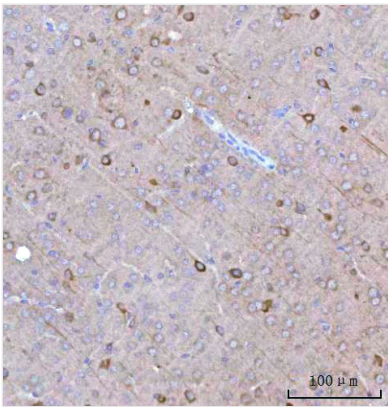
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of U937 cells using anti-BCAT1 antibody (AAA126409).Overlay histogram showing U937 cells stained with AAA126409 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-BCAT1 Antibody (AAA126409, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



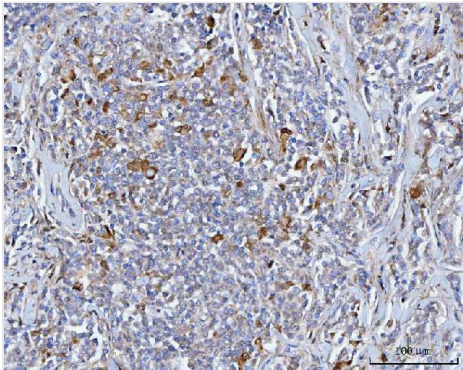
IHC (Immunohistochemisry)

Figure 3. IHC analysis of BCAT1 using anti-BCAT1 antibody (AAA126409).BCAT1 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-BCAT1 Antibody (AAA126409) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



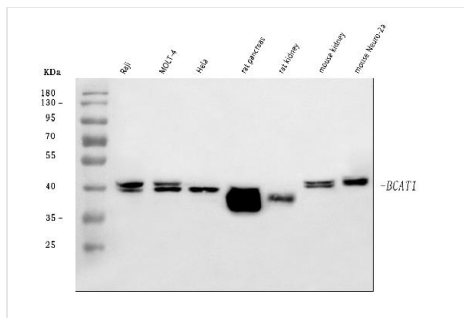
IHC (Immunohistochemistry)

Figure 4. IHC analysis of BCAT1 using anti-BCAT1 antibody (AAA126409).BCAT1 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-BCAT1 Antibody (AAA126409) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of BCAT1 using anti-BCAT1 antibody (AAA126409).BCAT1 was detected in a paraffin-embedded section of human lymphoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-BCAT1 Antibody (AAA126409) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of BCAT1 using anti-BCAT1 antibody (AAA126409). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Raji whole cell lysates, Lane 2: human MOLT-4 whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: rat pancreas tissue lysates, Lane 5: rat kidney tissue lysates, Lane 6: mouse kidney tissue lysates, Lane 7: mouse Neuro-2a whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-BCAT1 antigen affinity purified polyclonal antibody (#AAA126409) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for BCAT1 at approximately 43 kDa. The expected band size for BCAT1 is at 43 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-BCAT1 antibody	BCAT1, Branched-chain Aminotransferase1, is also known as BCT1. The BCAT1 gene is highly expressed early in embryogenesis, and during organogenesis its expression is localized to the neural tube, the somites, and the mesonephric tubules. The gene is also expressed in several MYC-based tumors. The BCAT1 gene is mapped to chromosome 12. Lack of the enzyme BCT can cause auxotroph, a kind of auxotrophic mutant in Chinese-hamster ovary cells that lacks the ability to grow if alpha-ketoisovaleric acid, alpha-ketoisocaproic acid, and alpha-keto-beta-methylvaleric acid are substituted for valine, leucine, and isoleucine in the culture medium.
Product Categories/Family for anti-BCAT1 antibody	Primary Antibodies , Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	215274162
NCBI GeneID	586
UniProt Accession #	P54687 ; Q68DQ7 ; Q96MY9 ; B3KY27 ; B7Z2M5 ; B7Z5L0 ; F5H5E4
Molecular Weight	386
NCBI Official Full Name	Branched-chain-amino-acid aminotransferase, cytosolic
NCBI Official Synonym Full Names	branched chain amino-acid transaminase 1, cytosolic
NCBI Official Symbol	BCAT1
NCBI Official Synonym Symbols	BCT1; PP18; BCATC; ECA39; MECA39; PNAS121
NCBI Protein Information	branched-chain-amino-acid aminotransferase, cytosolic; placental protein 18; branched chain aminotransferase 1, cytosolic
UniProt Protein Name	Branched-chain-amino-acid aminotransferase, cytosolic
UniProt Gene Name	BCAT1
UniProt Synonym Gene Names	BCT1; ECA39; BCAT(c)

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/bcat1-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/126409>