



## Rabbit Anti-BCAT1 antibody

SL6613R

<b>Product Name:</b>	BCAT1
<b>Chinese Name:</b>	胞浆支链氨基酸转氨酶抗体
<b>Alias:</b>	cytosolic; BCAT; BCAT(c); Bcat1; BCAT1_HUMAN; BCT1; Branched chain amino acid aminotransferase, cytosolic; Branched-chain-amino-acid aminotransferase; ECA39; MECA39; PNAS 121; Protein ECA39.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	43kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human BCAT1:321-386/386
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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. [provided by RefSeq, May 2010].

**Function:**

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

**Subunit:**

Belongs to the class-IV pyridoxal-phosphate-dependent aminotransferase family.

**Subcellular Location:**

Cytoplasm.

**Tissue Specificity:**

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

**Similarity:**

Belongs to the class-IV pyridoxal-phosphate-dependent aminotransferase family.

**SWISS:**

P54687

**Gene ID:**

586

**Database links:**

[Entrez Gene: 586](#) Human

[Entrez Gene: 12035](#) Mouse

[Oimim: 113520](#) Human

[SwissProt: P54687](#) Human

[SwissProt: P24288](#) Mouse

[Unigene: 438993](#) Human

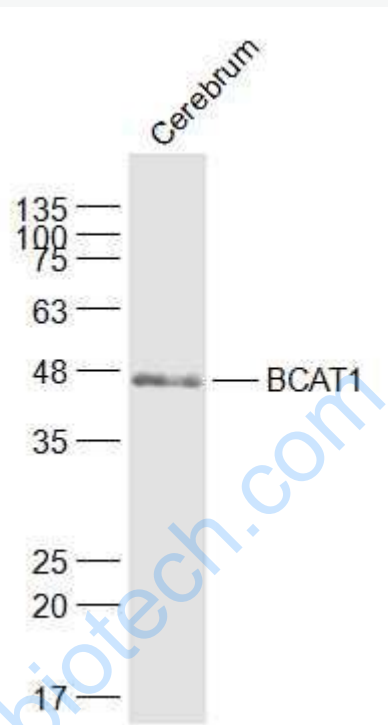
[Unigene: 4606](#) Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Picture:



Sample:

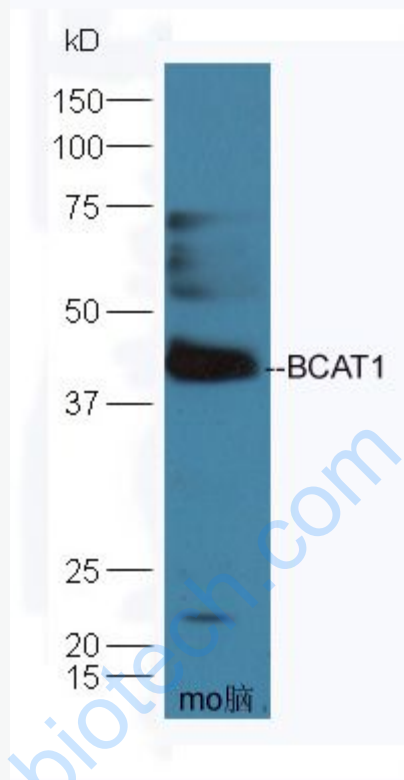
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-BCAT1 (SL6613R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 43 kD

Observed band size: 45 kD



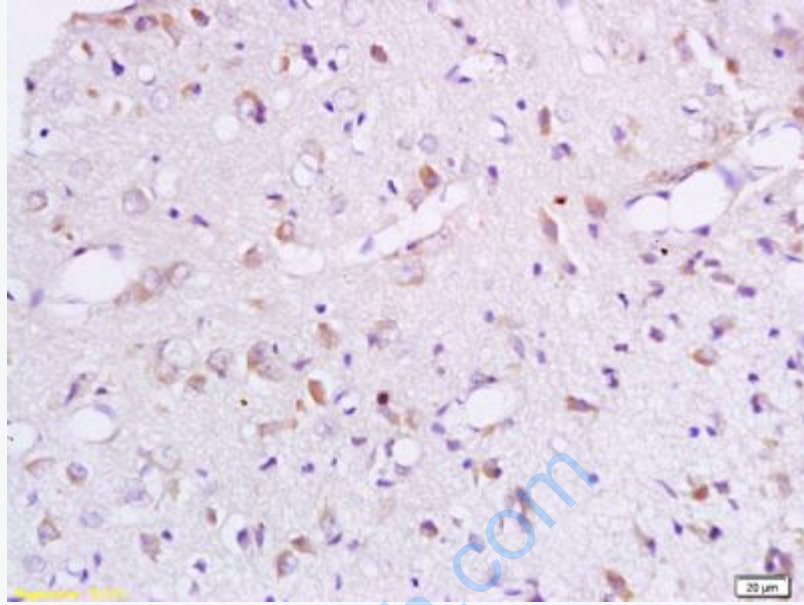
Sample: Brain (Mouse) Lysate at 40 ug

Primary: Anti-BCAT1 (SL6613R) at 1/300 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL6613R) at 1/5000 dilution

Predicted band size: 43 kD

Observed band size: 43 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-BCAT1 Polyclonal Antibody, Unconjugated(SL6613R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining