

**BCAT2**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2541a****Specification**

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**BCAT2 - Product Information**

Application	<b>E, WB</b>
Primary Accession	<a href="#">O15382</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>Mouse IgG1</b>
Calculated MW	<b>44.3kDa KDa</b>

**Immunogen**

Purified recombinant fragment of human BCAT2 (AA: 259-393) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**BCAT2 - Additional Information**

**Gene ID** 587

**Other Names**

BCAM; BCT2; PP18; BCATM

**Dilution**

E~~ 1/10000

WB~~ 1/500 - 1/2000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

BCAT2 is for research use only and not for use in diagnostic or therapeutic procedures.

**BCAT2 - Protein Information**

**Name** BCAT2

**Function**

Catalyzes the first reaction in the catabolism of the essential branched chain amino acids leucine, isoleucine, and valine (PubMed:<a href="http://www.uniprot.org/citations/17050531" target="\_blank">17050531</a>, PubMed:<a href="http://www.uniprot.org/citations/25653144" target="\_blank">25653144</a>, PubMed:<a href="http://www.uniprot.org/citations/8702755" target="\_blank">8702755</a>). May also function as a transporter of branched chain alpha-keto

acids (By similarity).

#### Cellular Location

Mitochondrion {ECO:0000250|UniProtKB:O35854}.

#### Tissue Location

Ubiquitous..

### BCAT2 - 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](#)

### BCAT2 - Images

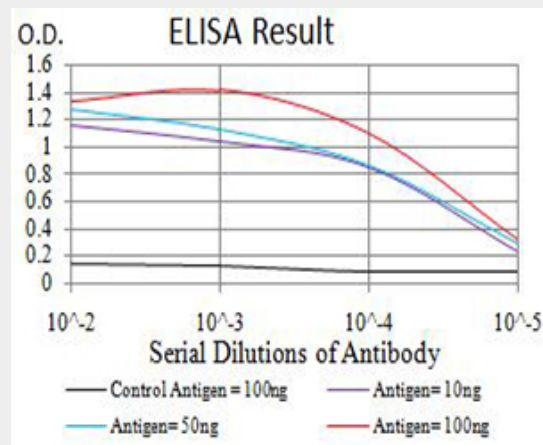


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

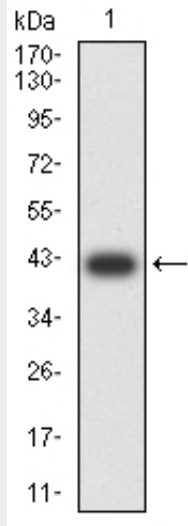


Figure 2:Western blot analysis using BCAT2 mAb against human BCAT2 (AA: 259-393) recombinant protein. (Expected MW is 41.5 kDa)

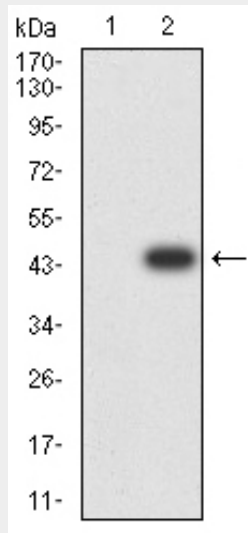


Figure 3:Western blot analysis using BCAT2 mAb against HEK293 (1) and BCAT2 (AA: 259-393)-hlgGfC transfected HEK293 (2) cell lysate.

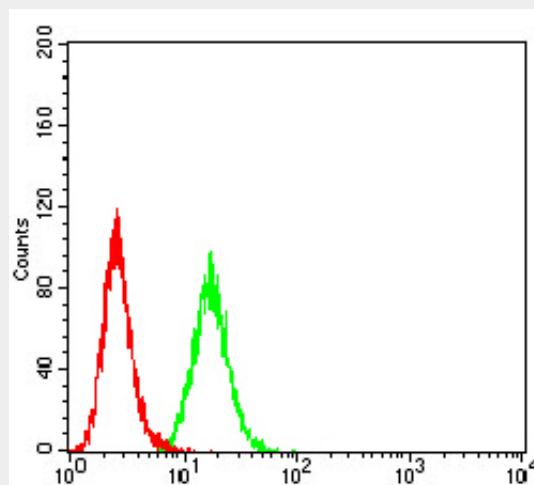


Figure 4:Flow cytometric analysis of HeLa cells using BCAT2 mouse mAb (green) and negative

control (red).

### **BCAT2 - References**

1. J Neurochem. 2012 Dec;123(6):997-1009. 2. Biochemistry. 2009 Jan 27;48(3):645-56.