

For Research Use Only

# BCAT2 Monoclonal antibody

Catalog Number: 68586-1-Ig



## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>68586-1-Ig                              | <b>GenBank Accession Number:</b><br>BC001900                             | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>150ul , Concentration: 1000 µg/ml by<br>Nanodrop; | <b>GeneID (NCBI):</b><br>587   | <b>CloneNo.:</b><br>1A5A5                             |
| <b>Source:</b><br>Mouse   | <b>Full Name:</b><br>branched chain aminotransferase 2,<br>mitochondrial | <b>Recommended Dilutions:</b><br>WB 1:5000-1:50000    |
| <b>Isotype:</b><br>IgG2a  | <b>Calculated MW:</b><br>44 kDa  |   |
| <b>Immunogen Catalog Number:</b><br>AG9595                        | <b>Observed MW:</b><br>38 kDa  |   |

## Applications

**Tested Applications:**  
WB, ELISA

**Species Specificity:**  
Human, mouse

### Positive Controls:

**WB:** A431 cells, HCT 116 cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, Raji cells, mouse testis tissue

## Background Information

Branched-chain amino acid transaminase 2 (BCAT2) is an important enzyme in branched-chain amino acids (BCAAs) catabolism that reversibly catalyzes the initial step of BCAA degradation to branched-chain acyl-CoA. In humans, BCAT2 encodes a mitochondrial protein that is ubiquitously expressed in all organs (except hepatocytes) (PMID:32467562). Moreover, other reports showed that overexpressed BCAT2 in pancreatic ductal adenocarcinoma (PDAC) cells enhanced cell proliferation and survival in vitro and in vivo (PMID:35663242).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

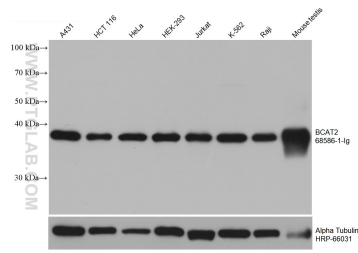
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68586-1-Ig (BCAT2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.