

For Research Use Only

# BCAT2 Monoclonal antibody

Catalog Number: 68586-1-Ig



## Basic Information

<b>Catalog Number:</b> 68586-1-Ig	<b>GenBank Accession Number:</b> BC001900	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by 587 Nanodrop;	<b>GeneID (NCBI):</b> UNIPROT ID: O15382	<b>CloneNo.:</b> 1A5A5
<b>Source:</b> Mouse	<b>Full Name:</b> branched chain aminotransferase 2, mitochondrial	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IF/ICC 1:565-1:2260
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 44 kDa	
<b>Immunogen Catalog Number:</b> AG9595	<b>Observed MW:</b> 38 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> A431 cells, HCT 116 cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, Raji cells, mouse testis tissue
	<b>IF/ICC :</b> A431 cells,

## 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

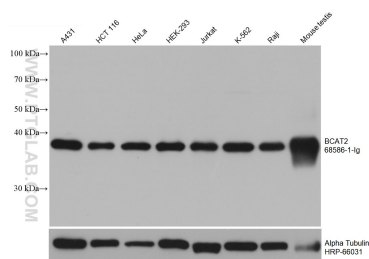
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

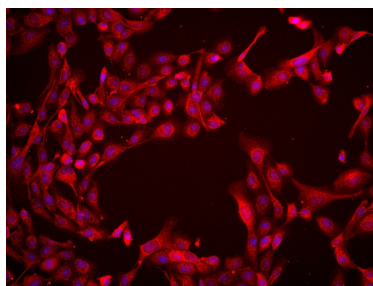
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



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.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using BCAT2 antibody (68586-1-Ig, Clone: 1A5A5) at dilution of 1:1130 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).