

# BCAT2 Monoclonal antibody

Catalog Number: 68586-1-Ig

## Basic Information

**Catalog Number:**

68586-1-Ig

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG2a

**Immunogen Catalog Number:**

AG9595

**GenBank Accession Number:**

BC001900

**GeneID (NCBI):**

587

**UNIPROT ID:**

O15382

**Full Name:**

branched chain aminotransferase 2,  
mitochondrial

**Calculated MW:**

44 kDa

**Observed MW:**

38 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

1A5A5

**Recommended Dilutions:**

WB 1:5000-1:50000

IF/ICC 1:565-1:2260

## Applications

**Tested Applications:**

WB, IF/ICC, 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

**IF/ICC :** 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:**

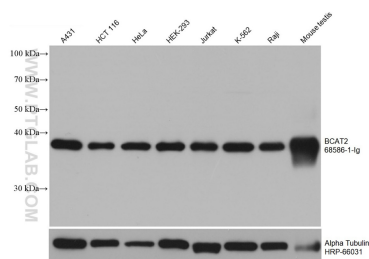
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

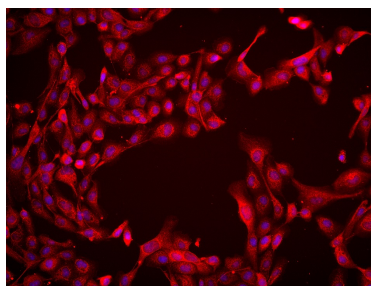
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## 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).