

For Research Use Only

BCAT2 Polyclonal antibody

Catalog Number: 16417-1-AP

Featured Product

19 Publications



Basic Information

Catalog Number:

16417-1-AP

Size:

267 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9573

GenBank Accession Number:

BC001900

GeneID (NCBI):

587

UNIPROT ID:

O15382

Full Name:

branched chain aminotransferase 2, mitochondrial

Calculated MW:

44 kDa

Observed MW:

38-42 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:20-1:200

IF 1:50-1:500

Applications

Tested Applications:

FC, IF/ICC, IHC, WB, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

Human, mouse

Cited Species:

human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HepG2 cells, MCF-7 cells, LO2 cells, Jurkat cells, Raji cells

IHC: human skin tissue, human placenta tissue

IF: C2C12 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Yukari Shida	34845278	Sci Rep	WB
Dongdong Yang	36417878	Cell Rep	WB
Yang Yang	34084135	Front Pharmacol	WB

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

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

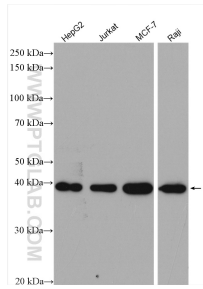
T: 4006900926

E: Proteintech-CN@ptglab.com

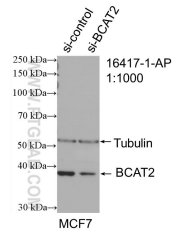
W: ptgcn.com

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

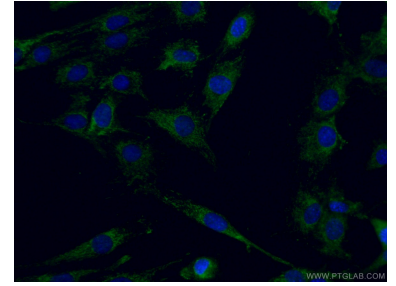
Selected Validation Data



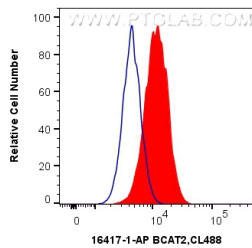
Various lysates were subjected to SDS PAGE followed by western blot with 16417-1-AP (BCAT2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



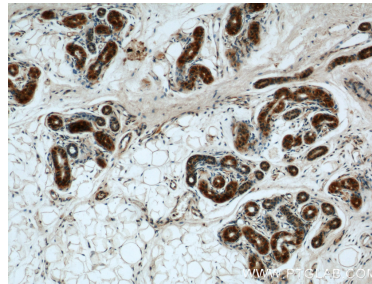
WB result of BCAT2 antibody (16417-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-BCAT2 transfected MCF-7 cells.



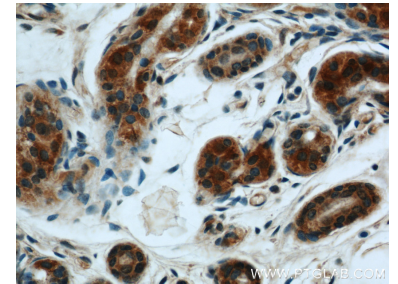
Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using 16417-1-AP (BCAT2 antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10⁶ HepG2 cells were intracellularly stained with 0.8 ug Anti-Human BCAT2 (16417-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.8 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded human skin using 16417-1-AP (BCAT2 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skin using 16417-1-AP (BCAT2 antibody) at dilution of 1:50 (under 40x lens).