

BCAT2 Polyclonal antibody

Catalog Number: 16417-1-AP

Featured Product

17 Publications

Basic Information

Catalog Number: 16417-1-AP	GenBank Accession Number: BC001900	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 267 µg/ml by Nanodrop;	GeneID (NCBI): 587	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200
Source: Rabbit	Full Name: branched chain aminotransferase 2, mitochondrial	
Isotype: IgG	Calculated MW: 44 kDa	
Immunogen Catalog Number: AG9573	Observed MW: 38-42 kDa	

Applications

Tested Applications: FC, IHC, WB, ELISA	Positive Controls:
Cited Applications: IF, IHC, WB	WB : HepG2 cells, MCF-7 cells, LO2 cells, Jurkat cells, Raji cells
Species Specificity: Human	IHC : human skin tissue, human placenta tissue
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	

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.

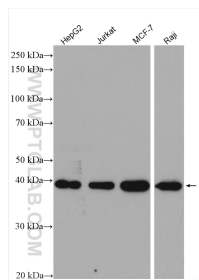
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

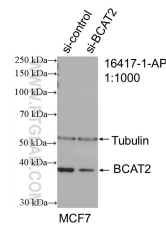
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
 W: ptglab.com

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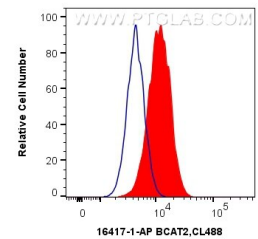
Selected Validation Data



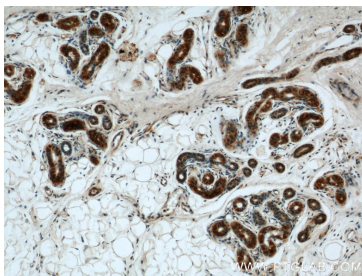
Various lysates were subjected to SDS PAGE followed by western blot with 16417-1-AP (BCAT2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



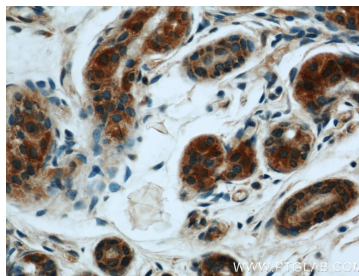
WB result of BCAT2 antibody (16417-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-BCAT2 transfected MCF-7 cells.



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).