

For Research Use Only

BCAT1 Polyclonal antibody

Catalog Number: 13640-1-AP

Featured Product

23 Publications



Basic Information

Catalog Number: 13640-1-AP	GenBank Accession Number: BC033864	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 µg/ml by Nanodrop;	GeneID (NCBI): 586	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: branched chain aminotransferase 1, cytosolic	
Isotype: IgG	Calculated MW: 320 aa, 36 kDa	
Immunogen Catalog Number: AG4574	Observed MW: 43-45 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls:
Cited Applications: IF, IHC, WB	WB: Jurkat cells, HeLa cells, Neuro-2a cells
Species Specificity: human, mouse, rat	IHC: mouse brain tissue, human stomach cancer tissue
Cited Species: human, rat, mouse	IF: HepG2 cells,
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

BCAT1, also named as branched-chain amino acid transaminase1, is a cytosolic enzyme responsible for the reversible transamination of leucine, isoleucine and valine that catalyzes the transformation of branched-chain L-amino acids (BCAA) into branched-chain α-ketoacids (BCKA), thereby providing macromolecule precursors. It has been reported that BCAT1 is associated with tumor growth and disease progression (PMID:29255149). 13640-1-AP antibody detects the bands around 43-45 kDa for different isoforms and higher molecular weight for phosphorylation modification of this protein.

Notable Publications

Author	Pubmed ID	Journal	Application
Lili Tan	36182869	Biochem Biophys Res Commun	WB, IF
Yunyun Liu	36176992	Front Cardiovasc Med	WB
Haikuo Li	36265491	Cell Metab	IF

Storage

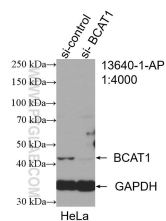
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

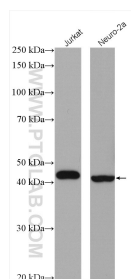
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

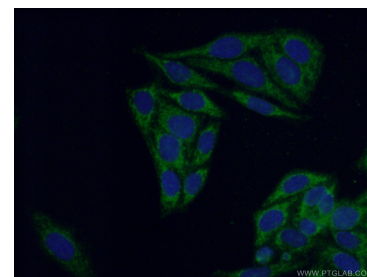
Selected Validation Data



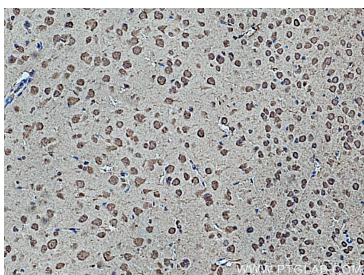
WB result of BCAT1/ECA39 antibody (13640-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-BCAT1/ECA39 transfected HeLa cells.



Various lysates were subjected to SDS PAGE followed by western blot with 13640-1-AP (BCAT1/ECA39 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 13640-1-AP (BCAT1/ECA39 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13640-1-AP (BCAT1/ECA39 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).