

For Research Use Only

# BCAT1 Polyclonal antibody, PBS Only

Catalog Number: 13640-1-PBS

Featured Product



## Basic Information

Catalog Number:

13640-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4574

GenBank Accession Number:

BC033864

GeneID (NCBI):

586

UNIPROT ID:

P54687

Full Name:

branched chain aminotransferase 1,  
cytosolic

Calculated MW:

320 aa, 36 kDa

Observed MW:

43-45 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

human, mouse, rat

## Background Information

BCAT1, also named 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  $\alpha$ -ketoacids (BCKA), thereby providing macromolecule precursors. It has been reported that BCAT1 is associated with tumor growth and disease progression (PMID:29255149). The 13640-1-AP antibody detects the bands around 43-45 kDa for different isoforms and higher molecular weight for phosphorylation modification of this protein.

## Storage

Storage:

Store at  $-80^{\circ}\text{C}$ .

The product is shipped with ice packs. Upon receipt, store it immediately at  $-80^{\circ}\text{C}$

Storage Buffer:

PBS only, pH7.3

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

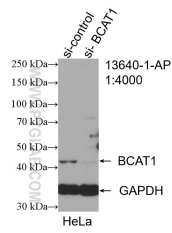
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

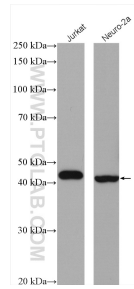
W: [ptgcn.com](http://ptgcn.com)

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

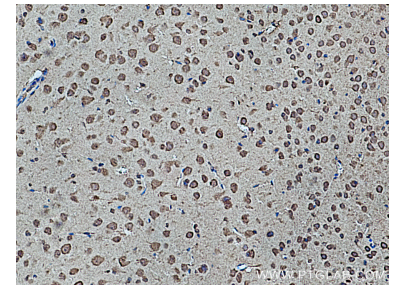
## Selected Validation Data



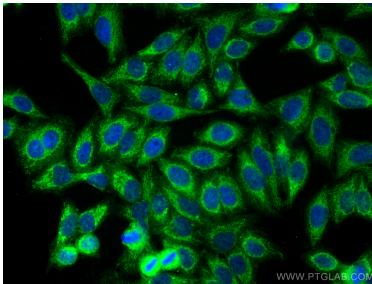
WB result of BCAT1/ECA39 antibody (13640-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-BCAT1/ECA39 transfected HeLa cells. This data was developed using the same antibody clone with 13640-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 13640-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 13640-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using BCAT1 antibody (13640-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 13640-1-PBS in a different storage buffer formulation.