

For Research Use Only

# BCAT1 Polyclonal antibody

Catalog Number: 28622-1-AP

2 Publications



## Basic Information

### Catalog Number:

28622-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG28998

### 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:

43-48 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

Human, rat

### Cited Species:

human, 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 : C6 cells, Jurkat cells

IHC : human liver cancer tissue, human lung cancer tissue, human gliomas tissue

## 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  $\alpha$ -ketoacids (BCKA), thereby providing macromolecule precursors. It has been reported that BCAT1 is associated with tumor growth and disease progression (PMID:29255149).

## Notable Publications

Author	Pubmed ID	Journal	Application
Hongming Wang	33760210	Oncol Rep	IHC
Zhuo Lu	38718847	Biochim Biophys Acta Mol Basis Dis	WB, IHC

## 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

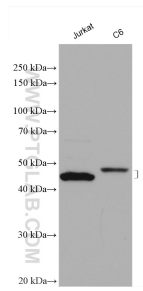
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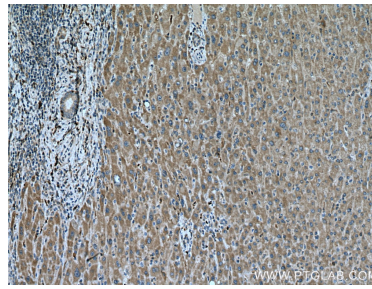
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28622-1-AP (BCAT1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 28622-1-AP (BCAT1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).