

Product datasheet for CF504360

OriGene Technologies, Inc.

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BCAT1 Mouse Monoclonal Antibody [Clone ID: OTI3F5]

Product data:

Product Type: Primary Antibodies

Clone Name: OTI3F5
Applications: IHC, WB

Recommended Dilution: WB 1:500~2000, IHC 1:150

Reactivity: Human, Dog, Mouse

Host: Mouse IgG2a

Clonality: Monoclonal

Immunogen: Full length human recombinant protein of human BCAT1(NP_005495) produced in HEK293T

cell.

Formulation: Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)

Reconstitution Method: For reconstitution, we recommend adding 100uL distilled water to a final antibody

concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)

Purification: Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 42.8 kDa

Gene Name: branched chain amino acid transaminase 1

Database Link: NP 005495

Entrez Gene 12035 MouseEntrez Gene 486633 DogEntrez Gene 586 Human

P54687





Background: This gene encodes the cytosolic form of the enzyme branched-chain amino acid

transaminase. This enzyme catalyzes the reversible transamination of branched-chain alphaketo acids to branched-chain L-amino acids essential for cell growth. Two different clinical disorders have been attributed to a defect of branched-chain amino acid transamination: hypervalinemia and hyperleucine-isoleucinemia. As there is also a gene encoding a mitochondrial form of this enzyme, mutations in either gene may contribute to these disorders. Alternatively spliced transcript variants have been described. [provided by RefSeq]

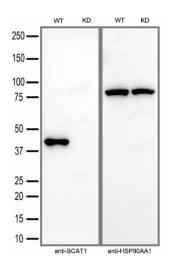
Synonyms: BCATC; BCT1; ECA39; MECA39; PNAS121; PP18

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Pantothenate and CoA biosynthesis, Valine, leucine and isoleucine

biosynthesis, Valine, leucine and isoleucine degradation

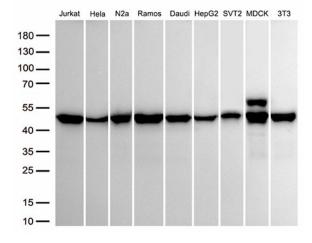
Product images:



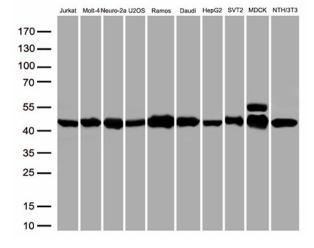
1 2 1 2 170— 130— 100— 70— 55— 40— 35— 25— 15— 10Equivalent amounts of cell lysates (30 ug per lane) of wild-type HeLa cells (WT) and BCAT1-Knockdown HeLa cells (KD) were separated by SDS-PAGE and immunoblotted with anti-BCAT1 monoclonal antibody [TA504360] (1:5000). Then the blotted membrane was stripped and reprobed with anti-HSP90AA1 antibody as a loading control.

Figure A, Western blot analysis of overexpressed lysates(25ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], lane 1), human BCAT1 plasmid ([RC219229], lane 2) using anti-BCAT1 antibody [TA504360] (1:500). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)

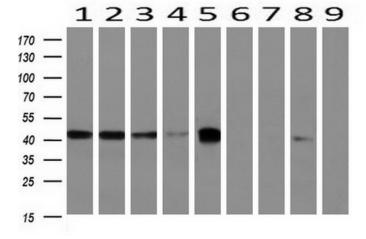




Western blot analysis of extracts (50ug per lane) from 9 cell lines lysates by using anti-BCAT1 antibody. ([TA504360], 1:500).

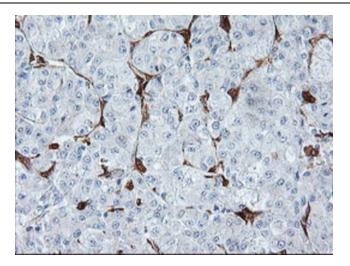


Western blot analysis of extracts (50ug per lane) from 10 cell lines lysates by using anti-BCAT1 monoclonal antibody([TA504360], 1:500)

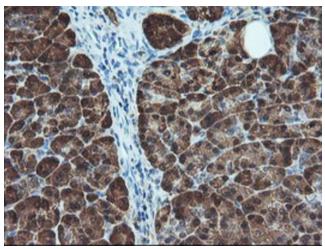


Western blot analysis of extracts (10ug) from 9 Human tissue by using anti-BCAT1 monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: Colon).

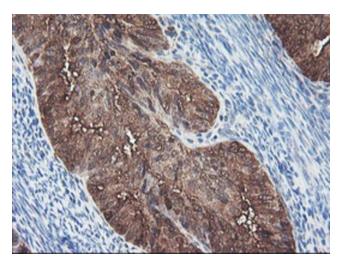




Immunohistochemical staining of paraffinembedded Carcinoma of Human liver tissue using anti-BCAT1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

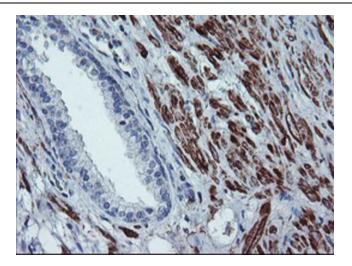


Immunohistochemical staining of paraffinembedded Human pancreas tissue within the normal limits using anti-BCAT1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

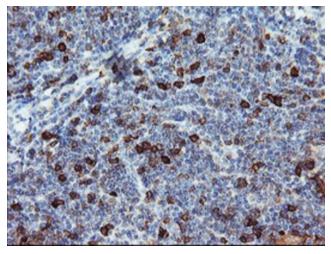


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human endometrium tissue using anti-BCAT1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

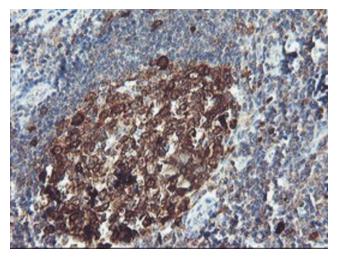




Immunohistochemical staining of paraffinembedded Human prostate tissue within the normal limits using anti-BCAT1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min



Immunohistochemical staining of paraffinembedded Human lymphoma tissue using anti-BCAT1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffinembedded Human tonsil within the normal limits using anti-BCAT1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.