

## Product datasheet for **TA504360BM**

### **BCAT1 Mouse Monoclonal Antibody (HRP conjugated) [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
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human BCAT1(NP_005495) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	HRP
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:	<a href="#">NP_005495</a> <a href="#">Entrez Gene 12035 Mouse</a> <a href="#">Entrez Gene 486633 Dog</a> <a href="#">Entrez Gene 586 Human</a> <a href="#">P54687</a>



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**Background:**

This gene encodes the cytosolic form of the enzyme branched-chain amino acid transaminase. This enzyme catalyzes the reversible transamination of branched-chain alpha-keto 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:**

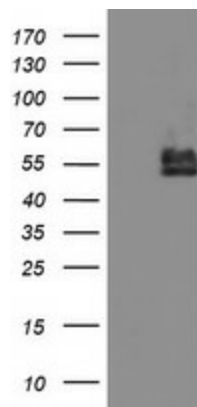
BCATC; BCT1; ECA39; MECA39; PNAS121; PP18

**Protein Families:**

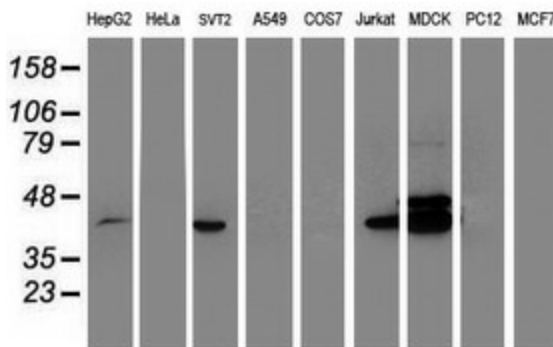
Druggable Genome

**Protein Pathways:**

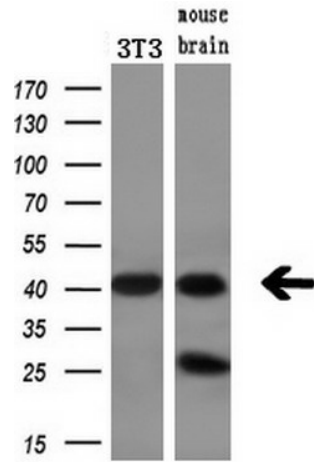
Metabolic pathways, Pantothenate and CoA biosynthesis, Valine, leucine and isoleucine biosynthesis, Valine, leucine and isoleucine degradation

**Product images:**


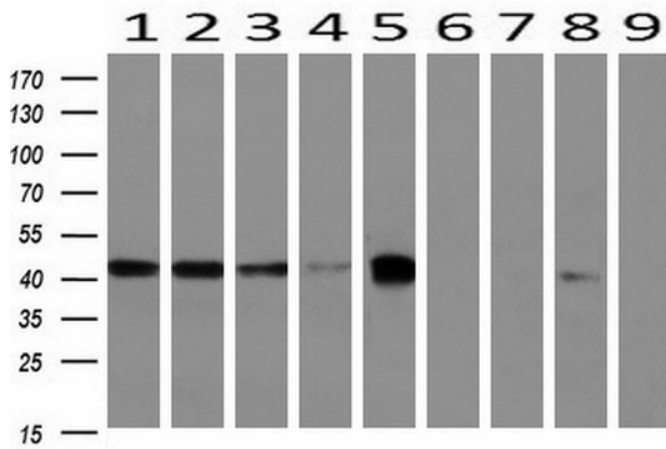
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BCAT1 (Cat# [RC219229], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BCAT1(Cat# [TA504360]). Positive lysates [LY401683] (100ug) and [LC401683] (20ug) can be purchased separately from OriGene.



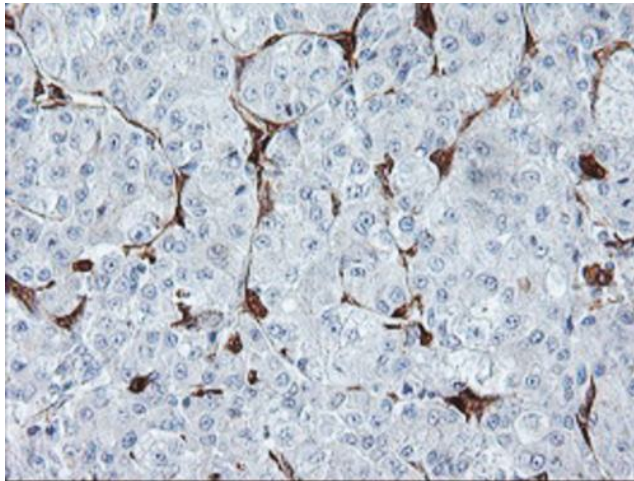
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-BCAT1 monoclonal antibody.



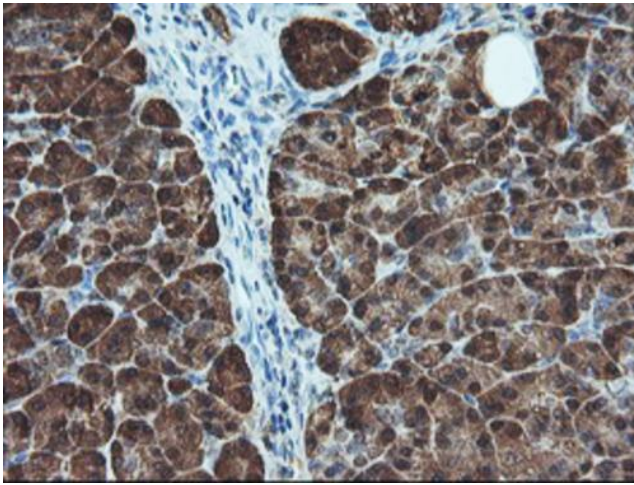
Western blot analysis of extracts (10ug) from a mouse cell line and a mouse tissue by using anti-BCAT1 monoclonal antibody (1:200).



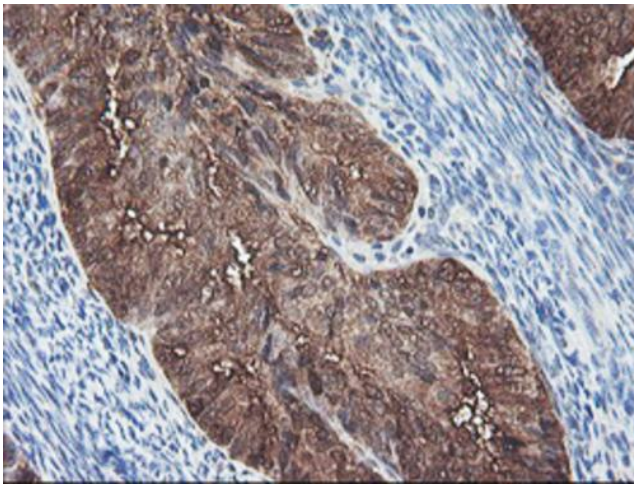
Western blot analysis of extracts (10ug) from 9 Human tissue by using anti-BCAT1 monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: Colon).



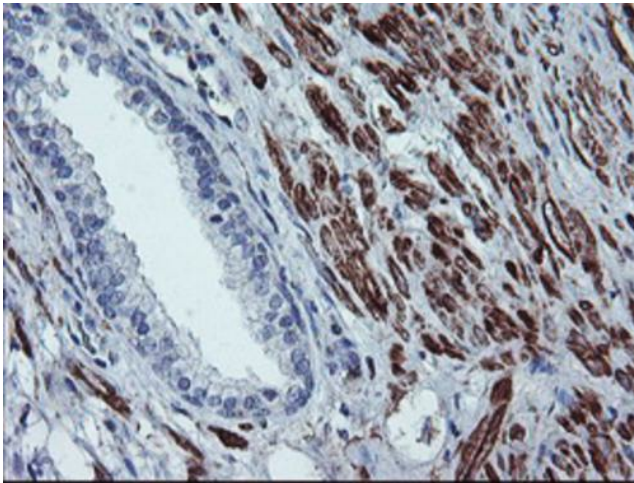
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-BCAT1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504360])



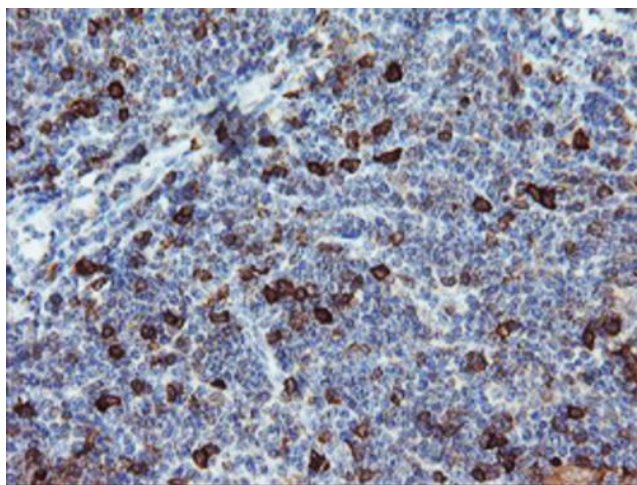
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-BCAT1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504360])



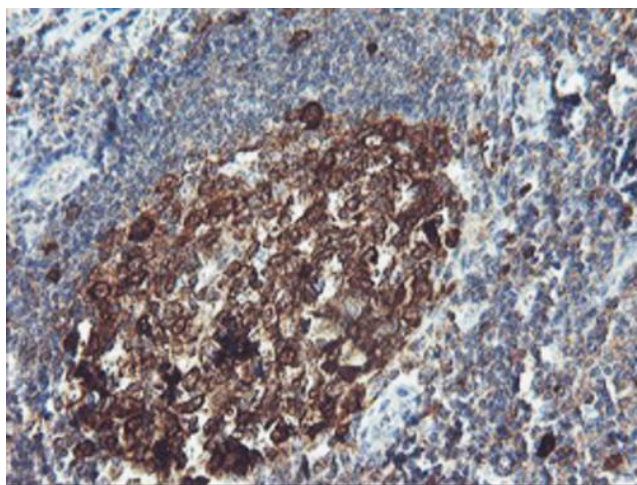
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-BCAT1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504360])



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-BCAT1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504360])



Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-BCAT1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504360])



Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-BCAT1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504360])