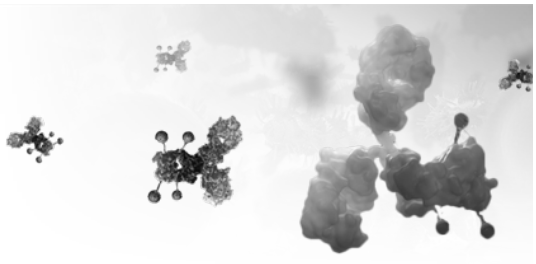

Mouse anti-Human BCAT1 monoclonal antibody, clone 2G9 (CABT-B9840)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	BCAT1 (AAH33864, 1 a.a. ~ 321 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	2G9
Conjugate	Unconjugated
Applications	WB,sELISA,ELISA
Sequence Similarities	MDCSNGCSAECTGEGGSKEVVGTFKAKDLIVTPATILKEKPDPNNLVFGTVFTDHMLTVE WSSEFGWEKPHIKPLQNLSLHPGSSALHYAVELFEGLKAFRGVDNKIRLFQPNLNMDRMY RSAVRATLPVFDKEELLECIQQLVKLDQEWVPYSTSASLYIRPTFIGTEPSLGVKKPTKA LLFVLLSPVGPYFSSGTFNPVSLWANPKYVRAWKGGTGDCKMGGNYGSSLFAQCEAVDNG CQQVLWLYGEDHQIT
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

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Introduction	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, May 2010]
Keywords	BCAT1; branched chain amino-acid transaminase 1, cytosolic; BCT1; PP18; BCATC; ECA39; MECA39; PNAS121; branched-chain-amino-acid aminotransferase, cytosolic; placental protein 18; branched chain aminotransferase 1, cytosolic;

GENE INFORMATION

Entrez Gene ID	586
UniProt ID	P54687
Pathway	Branched-chain amino acid catabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Pantothenate and CoA biosynthesis, organism-specific biosystem; Pantothenate and CoA biosynthesis, conserved biosystem; Validated targets of C-MYC transcriptional activation, organism-specific biosystem
Function	L-isoleucine transaminase activity; L-leucine transaminase activity; L-valine transaminase activity; branched-chain-amino-acid transaminase activity; identical protein binding; transferase activity

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