

Rabbit anti-Human BCKDHB Polyclonal Antibody | anti-BCKDHB antibody

BCKDHB Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290133	Rabbit	Human	Immunofluorescence, Flow Cytometry, Functional Assay, Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

BCKDHB; Polyclonal Antibody; BCKDHB Antibody (N-term); 2-oxoisovalerate dehydrogenase subunit beta; mitochondrial; Branched-chain alpha-keto acid dehydrogenase E1 component beta chain; BCKDE1B; BCKDH E1-beta; anti-BCKDHB antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This BCKDHB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 41-70 amino acids from the N-terminal region of human BCKDHB.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.45 (varies by lot)
Sequence Positions	41-70
Sequence Length	218
Applicable Applications for anti-BCKDHB antibody	IF (Immunofluorescence), FCM/FACS (Flow Cytometry), WB (Western Blot), IHC (Immunohistochemistry), ELISA
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Confocal immunofluorescent analysis of BCKDHB Antibody (N-term) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



FCM/FACS (Flow Cytometry)

BCKDHB Antibody (N-term) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



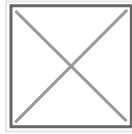
WB (Western Blot)

Western blot analysis of BCKDHB (arrow) using rabbit polyclonal BCKDHB Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the BCKDHB gene.



IHC (Immunohistochemistry)

BCKDHB Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the BCKDHB Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)

BCKDHB Antibody (N-term) western blot analysis in Hela cell line lysates (35ug/lane). This demonstrates the BCKDHB antibody detected the BCKDHB protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-BCKDHB antibody	Branched-chain keto acid dehydrogenase is a multienzyme complex associated with the inner membrane of mitochondria, and functions in the catabolism of branched-chain amino acids. The complex consists of multiple copies of 3 components: branched-chain alpha-keto acid decarboxylase (E1), lipoamide acyltransferase (E2) and lipoamide dehydrogenase (E3). This gene encodes the E1 beta subunit, and mutations therein have been associated with maple syrup urine disease (MSUD), type 1B, a disease characterized by a maple syrup odor to the urine in addition to mental and physical retardation, and feeding problems.
Product Categories/Family for anti-BCKDHB antibody	Metabolism ; Signal Transduction
References	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Gorzelay, K., et al. Turk. J. Pediatr. 51(2):97-102(2009) Quental, S., et al. Mol. Genet. Metab. 94(2):148-156(2008) Kang, H., et al. Fertil. Steril. 89(3):728-731(2008) Flaschker, N., et al. J. Inherit. Metab. Dis. 30(6):903-909(2007)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557353
NCBI GeneID	594
NCBI Accession #	NP_000047.1 ; NP_898871.1
NCBI GenBank Nucleotide #	NM_000056.3
UniProt Accession #	P21953 ; Q5T2J3 ; Q9BQL0
Molecular Weight	43122
NCBI Official Full Name	2-oxoisovalerate dehydrogenase subunit beta, mitochondrial
NCBI Official Synonym Full Names	branched chain keto acid dehydrogenase E1, beta polypeptide
NCBI Official Symbol	BCKDHB
NCBI Official Synonym Symbols	E1B; dJ279A18.1
NCBI Protein Information	2-oxoisovalerate dehydrogenase subunit beta, mitochondrial
UniProt Protein Name	2-oxoisovalerate dehydrogenase subunit beta, mitochondrial

UniProt Gene Name	BCKDHB
UniProt Synonym Gene Names	BCKDE1B; BCKDH E1-beta
UniProt Entry Name	ODBB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/bckdhb-antibody-immunofluorescence-flow-cytometry-western-blot-immunohistochemistry-elisa/290133>