

Rabbit BCKD Polyclonal Antibody | anti-BCKD antibody

BCKD Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320951	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

BCKD; Polyclonal Antibody; BCKD Antibody; [3 methyl 2 oxobutanoate dehydrogenase [lipoamide]] kinase; mitochondrial; [3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase; BCKD kinase; BCKD-kinase; BCKD_HUMAN; BCKDHKIN; Bckdk; BCKDKD; BDK; Branched chain alpha keto acid dehydrogenase kinase; Branched chain ketoacid dehydrogenase kinase; Branched-chain alpha-ketoacid dehydrogenase kinase; anti-BCKD antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	BCKD antibody detects endogenous levels of total BCKD
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	365
Applicable Applications for anti-BCKD antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human BCKD
Subcellular Location	Mitochondrion Matrix.
Tissue Specificity	Ubiquitous.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Zebrafish (91%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA320951 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from rat brain, using BCKD Antibody.



WB (Western Blot)

Western blot analysis on Jurkat and K562 cell lysate using BCKD Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA320951 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-BCKD antibody

Description: BCKDK an atypical protein kinase associated with the mitochondrial matrix. Contains a HATPase_c domain, found in several ATP-binding proteins including protein histidine kinases (PHKs), PHDKs, DNA gyrase B, topoisomerases, heat shock proteins, and DNA mismatch repair proteins. Unlike PHKs, BCK dimerizes through direct interaction of two opposing nucleotide-binding domains.

Function: Catalyzes the phosphorylation and inactivation of the branched-chain alpha-ketoacid dehydrogenase complex, the key regulatory enzyme of the valine, leucine and isoleucine catabolic pathways. Key enzyme that regulate the activity state of the BCKD complex.

Subunit Structure: Monomer.

Post-translational Modifications: Autophosphorylated.

Similarity: Belongs to the PDK/BCKDK protein kinase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	171906593
NCBI GeneID	10295
NCBI Accession #	NP_001116429.1
NCBI GenBank Nucleotide #	NM_001122957.2
UniProt Accession #	O14874; Q6FGL4; Q96G95; Q96IN5; A8MY43
Molecular Weight	Observed: 46 kDa Predicted: 47 kDa
NCBI Official Full Name	[3-methyl-2-oxobutanoate dehydrogenase
NCBI Official Synonym Full Names	branched chain ketoacid dehydrogenase kinase
NCBI Official Symbol	BCKDK
NCBI Official Synonym Symbols	BDK; BCKDKD
NCBI Protein Information	[3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase, mitochondrial; 3-methyl-2-oxobutanoate dehydrogenase [lipoamide] kinase, mitochondrial
UniProt Protein Name	[3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase, mitochondrial

UniProt Gene Name	BCKDK
UniProt Synonym Gene Names	BCKD-kinase; BCKDHKIN

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/bckd-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/320951>