

Rabbit BCKDHA Polyclonal Antibody | anti-BCKDHA antibody

BCKDHA antibody - N-terminal region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA200547	Rabbit	Tested Species Reactivity: Human Predicted Species Reactivity: Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit, Sheep, Zebrafish	Western Blot, Immunohistochemistry

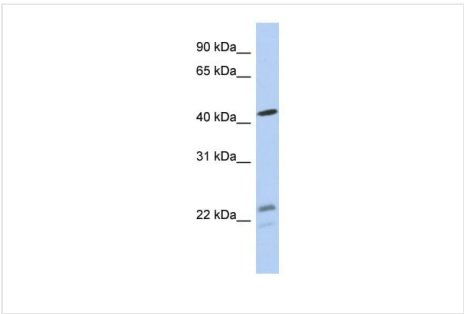
PRODUCT SYNONYMS

BCKDHA; Polyclonal Antibody; BCKDHA antibody - N-terminal region; anti-BCKDHA antibody

PRODUCT SPECIFICATIONS

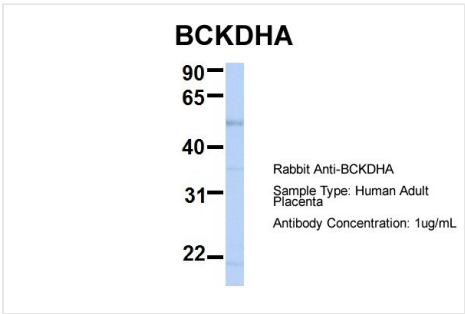
Host	Rabbit
Reactivity	Tested Species Reactivity: Human Predicted Species Reactivity: Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit, Sheep, Zebrafish
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Concentration	0.5mg/mL (varies by lot)
Sequence	Synthetic peptide with the following sequence: NV ISGIPIYRVM DRQGQIINPS EDPHLPKEKV LKLYKSM TLL NTMDRILY
Sequence Length	445
Applicable Applications for anti-BCKDHA antibody	WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human BCKDHA
Protein size (#AA)	445 amino acids
Blocking Peptide	For anti-BCKDHA antibody is Catalog #
Protein Interactions	UBC; CUL3; BCKDHB; BCKDK;
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



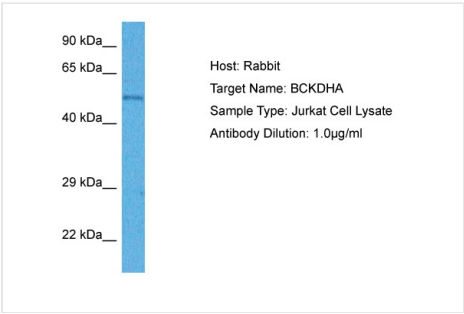
WB (Western Blot)

WB Suggested Anti-BCKDHA Antibody Titration: 0.2-1 ug/mlELISA Titer: 1:312500Positive Control: MCF7 cell lysateBCKDHA is supported by BioGPS gene expression data to be expressed in MCF7



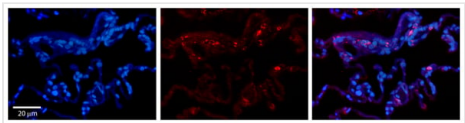
WB (Western Blot)

Host: RabbitTarget Name: SERPINA3Sample Type: Human Adult PlacentaAntibody Dilution: 1.0ug/ml



WB (Western Blot)

Host: RabbitTarget Name: BCKDHASample Tissue: Human Jurkat Whole CellAntibody Dilution: 1ug/ml



IHC (Immunohistochemistry)

Rabbit Anti-BCKDHA AntibodyFormalin Fixed Paraffin Embedded Tissue: Human Lung TissueObserved Staining: Cytoplasmic in alveolar type I & II cellsPrimary Antibody Concentration: 1:100Secondary Antibody: Donkey anti-Rabbit-Cy3Secondary Antibody Concentration: 1:200Magnification: 20XExposure Time: 0.5 - 2.0 sec

ADDITIONAL INFORMATION

Related Product Information for anti-BCKDHA antibody	This is a rabbit polyclonal antibody against BCKDHA. It was validated on Western Blot using a cell lysate as a positive control. Target Description: The branched-chain alpha-keto dehydrogenase complex catalyzes the overall conversion of alpha-keto acids to acyl-CoA and CO2. It contains multiple copies of three enzymatic components: branched-chain alpha-keto acid decarboxylase (E1), lipoamide acyltransferase (E2) and lipoamide dehydrogenase (E3).The BCKDHA gene encodes the E1-alpha subunit of the branched-chain alpha-keto acid (BCAA) dehydrogenase complex (BCKD; EC 1.2.4.4), an inner-mitochondrial enzyme complex that catalyzes the oxidative decarboxylation of the branched-chain alpha-ketoacids derived from isoleucine, leucine, and valine. This reaction is the second major step in the catabolism of the branched-chain amino acids (Wynn et al., 1998 [PubMed 9582350]). The BCKD complex consists of 3 catalytic components: a heterotetrameric (alpha2-beta2) branched-chain alpha-keto acid decarboxylase (E1), a homo-24-meric dihydrolipoyl transacylase (E2; MIM 248610), and a homodimeric dihydrolipoamide dehydrogenase (E3; MIM 238331). E1 is a thiamine pyrophosphate (TPP)-dependent enzyme. The reaction is irreversible and constitutes the first committed step in BCAA oxidation. The BCKDHB gene (MIM 248611) encodes the beta subunit of E1. The complex also contains 2 regulatory enzymes, a kinase and a phosphorylase.[supplied by OMIM]. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. PRIMARYREFSEQ_SPAN PRIMARY_IDENTIFIER PRIMARY_SPAN COMP 1-675 BI910860.1 12-686 676-1196 BG742673.1 80-600 1197-1731 BM702667.1 48-582 1732-1763 BE223026.1 1-32 c 1764-1781 BQ018849.1 1-18 c
Product Categories/Family for anti-BCKDHA antibody	Polyclonal; Signal Proteins; Drugs and Drug Metabolism; E3 & Ubiquitin

NCBI AND UNIPROT INFORMATION

NCBI GI #	11386135
NCBI GeneID	593

NCBI Accession #	NP_000700
NCBI GenBank Nucleotide #	NM_000709
UniProt Accession #	P12694
Molecular Weight	50kDa
NCBI Official Full Name	2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial isoform 1
NCBI Official Synonym Full Names	branched chain keto acid dehydrogenase E1, alpha polypeptide
NCBI Official Symbol	BCKDHA
NCBI Official Synonym Symbols	MSU; MSUD1; OVD1A; BCKDE1A
NCBI Protein Information	2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial
UniProt Protein Name	2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial
UniProt Gene Name	BCKDHA
UniProt Synonym Gene Names	BCKDE1A; BCKDH E1-alpha
UniProt Entry Name	ODBA_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/bckdha-antibody-western-blot-immunohistochemistry-elisa/200547>