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Zuschläge

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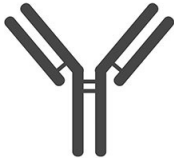
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Product Number	ARP56119_P050-FITC
Product Page	www.avivasysbio.com/bckdha-antibody-n-terminal-region-fitc-arp56119-p050-fitc.html
Name	BCKDHA Antibody - N-terminal region : FITC (ARP56119_P050-FITC)
Protein Size (# AA)	445 amino acids
Molecular Weight	50kDa
Subunit	alpha, mitochondrial
Conjugation	FITC: Fluorescein Isothiocyanate
NCBI Gene Id	593
Host	Rabbit
Clonality	Polyclonal
Concentration	0.5 mg/ml
Gene Full Name	Branched chain keto acid dehydrogenase E1, alpha polypeptide
Alias Symbols	MSU, MSUD1, OVD1A, BCKDE1A
Peptide Sequence	Synthetic peptide located within the following region: NVISGIPIYRVMDRQGQIINPSEDPHLPKEKVLKLYKSM TLLNTMDRILY
Product Format	Liquid. Purified antibody supplied in 1x PBS buffer.
Reference	Flaschker,N., (2007) J. Inherit. Metab. Dis. 30 (6), 903-909
Description of Target	<p>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.</p> <p>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</p>
Protein Interactions	UBC; CUL3; BCKDHB; BCKDK;
Reconstitution and Storage	All conjugated antibodies should be stored in light-protected vials or covered with a light protecting material (i.e. aluminum foil). Conjugated antibodies are stable for at least 12 months at 4C. If longer storage is desired (24 months), conjugates may be diluted with up to 50% glycerol and stored at -20C to -80C. Freezing and thawing conjugated antibodies will compromise enzyme activity as well as antibody binding.
Datasheets/Manuals	Printable datasheet for anti-BCKDHA (ARP56119_P050-FITC) antibody
Blocking Peptide	For anti-BCKDHA (ARP56119_P050-FITC) antibody is Catalog # AAP56119 (Previous Catalog # AAPP37740)
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human BCKDHA
Uniprot ID	P12694
Protein Name	2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial

Sample Type Confirmation	BCKDHA is supported by BioGPS gene expression data to be expressed in MCF7
Protein Accession #	NP_000700
Purification	Affinity Purified
Nucleotide Accession #	NM_000709
Gene Symbol	BCKDHA
Predicted Species Reactivity	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit, Sheep, Zebrafish
Application	IHC, WB
Predicted Homology Based on Immunogen Sequence	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Sheep: 100%; Zebrafish: 93%
Image 1	

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