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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Product Number	ARP58648_P050-Biotin
Product Page	www.avivasysbio.com/ogdh-antibody-n-terminal-region-biotin-arp58648-p050-biotin.html
Name	OGDH Antibody - N-terminal region : Biotin (ARP58648_P050-Biotin)
Protein Size (# AA)	427 amino acids
Molecular Weight	47kDa
Conjugation	Biotin
NCBI Gene Id	4967
Host	Rabbit
Clonality	Polyclonal
Concentration	0.5 mg/ml
Gene Full Name	Oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide)
Alias Symbols	E1k, KGD1, OGDC, AKGDH, OGDH2
Peptide Sequence	Synthetic peptide located within the following region: MFHLRTCAAKLRPLTASQTVKTFESQNRPAARTFQQIRCYSAPVAAEPFL
Product Format	Liquid. Purified antibody supplied in 1x PBS buffer.
Reference	van (2007) Am. J. Med. Genet. A 143 (7), 763-767
Description of Target	The 2-oxoglutarate dehydrogenase complex catalyzes the overall conversion of 2-oxoglutarate to succinyl-CoA and CO ₂ . It contains multiple copies of three enzymatic components: 2-oxoglutarate dehydrogenase (E1), dihydrolipoamide succinyltransferase (E2) and lipoamide dehydrogenase (E3). This gene encodes one subunit of the 2-oxoglutarate dehydrogenase complex. This complex catalyzes the overall conversion of 2-oxoglutarate (alpha-ketoglutarate) to succinyl-CoA and CO ₂ during the Krebs cycle. The protein is located in the mitochondrial matrix and uses thiamine pyrophosphate as a cofactor. A congenital deficiency in 2-oxoglutarate dehydrogenase activity is believed to lead to hypotonia, metabolic acidosis, and hyperlactatemia.
Protein Interactions	MDM2; UBC; SUMO1; NEDD8; CPSF7; MRPL38; MRPL41; TSR1; MRPS2; MRPL15; MRPL13; SCFD1; PDHX; SSBP1; SUMO2; PDHB; PDHA1; DLST; DLAT; DHODH; ISG15; USP13; PLSCR1; DLD;
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-OGDH (ARP58648_P050-Biotin) antibody
Blocking Peptide	For anti-OGDH (ARP58648_P050-Biotin) antibody is Catalog# AAP58648 (Previous Catalog# AAPP35785)
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human OGDH
Uniprot ID	Q96DD3
Protein Name	2-oxoglutarate dehydrogenase, mitochondrial
Protein Accession #	NP_001003941
Purification	Affinity Purified
Nucleotide Accession #	NM_001003941
Gene Symbol	OGDH
Predicted Species Reactivity	Human, Mouse, Rat, Cow, Guinea Pig, Horse, Rabbit
Application	WB

Predicted Homology Based on Immunogen Sequence	Cow: 100%; Guinea Pig: 93%; Horse: 100%; Human: 100%; Mouse: 93%; Rabbit: 93%; Rat: 93%
Image 1	 A schematic diagram of an antibody molecule, represented as a Y-shape. It consists of two heavy chains (the inner vertical lines) and two light chains (the outer diagonal lines), all connected at their base.

AVIVA SYSTEMS BIOLOGY manufactures and sells quality antibody products covering genome wide proteins.

This product is for Research Use Only. Not for diagnostic, human, or veterinary use.

Optimal conditions of its use should be determined by end users.

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