

## Product datasheet for **TA344249**

### OGDH Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-OGDH antibody: synthetic peptide directed towards the N terminal of human OGDH. Synthetic peptide located within the following region: MFHLRTCAAKLRPLTASQTVKTF SQNRPAARTFQIRCYSAPVAAEPFL
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	47 kDa
Gene Name:	oxoglutarate dehydrogenase
Database Link:	<a href="#">NP_001003941</a> <a href="#">Entrez Gene 4967 Human</a> <a href="#">Q02218</a>



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**Background:**

The 2-oxoglutarate dehydrogenase complex catalyzes the overall conversion of 2-oxoglutarate to succinyl-CoA and CO<sub>2</sub>. 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<sub>2</sub> 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.

**Synonyms:**

AKGDH; E1k; OGDC

**Note:**

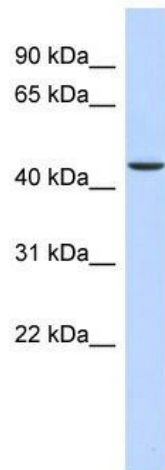
Immunogen Sequence Homology: Horse: 100%; Human: 100%; Bovine: 100%; Pig: 93%; Rat: 93%; Mouse: 93%; Rabbit: 93%; Guinea pig: 93%

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Citrate cycle (TCA cycle), Lysine degradation, Metabolic pathways, Tryptophan metabolism

**Product images:**

WB Suggested Anti-OGDH Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1:12500; Positive Control: Human Liver