

Rabbit Anti-OGDH/AF350 Conjugated antibody

SL17710R-AF350

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| Product Name | Anti-OGDH/AF350 |
| Chinese Name | AF350 标记的酮戊二酸脱氢酶 OGDH 抗体 |
| Alias | 2 oxoglutarate dehydrogenase; 2 oxoglutarate dehydrogenase complex component E1; 2 oxoglutarate dehydrogenase mitochondrial; 2-oxoglutarate dehydrogenase; 2-oxoglutarate dehydrogenase complex component E1; AKGDH; Alpha ketoglutarate dehydrogenase; Alpha-ketoglutarate dehydrogenase; E1k; mitochondrial; ODO1_HUMAN; OGDC; OGDC E1; OGDC-E1; OGDH; Oxoglutarate (alpha ketoglutarate) dehydrogenase (lipoamide); Oxoglutarate decarboxylase; Oxoglutarate dehydrogenase (lipoamide); Oxoglutarate dehydrogenase (succinyl transferring). |
| Research Area | Cell biology immunology Signal transduction The new supersedes the old |
| Immunogen Species | Rabbit |
| Clonality | Polyclonal |
| React Species | Human(predicted:Pig,Cow,Horse,Sheep) IF=1:100-500 |
| Applications | not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight | 111kDa |
| Form | Lyophilized or Liquid |
| Concentration | 1mg/ml |
| immunogen | KLH conjugated synthetic peptide derived from human OGDH |
| Lsotype | IgG |
| Purification | affinity purified by Protein A |
| Storage Buffer | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| Storage | |

background:

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 CO₂ 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. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Sep 2009]

Function:

The 2-oxoglutarate dehydrogenase complex catalyzes the overall conversion of 2-oxoglutarate to succinyl-CoA and CO₂. It contains multiple copies of three enzymatic components: 2-oxoglutarate dehydrogenase (E1), dihydrolipoamide succinyltransferase (E2) and lipoamide dehydrogenase (E3).

Subcellular Location:

Mitochondrion matrix.

Similarity:

Belongs to the alpha-ketoglutarate dehydrogenase family.

Product Detail

Database links:

[Entrez Gene: 4967](#) Human

[Entrez Gene: 18293](#) Mouse

[Entrez Gene: 534599](#) Cow

[Entrez Gene: 360975](#) Rat

[Omim: 613022](#) Human

[SwissProt: Q148N0](#) Cow

[SwissProt: Q02218](#) Human

[SwissProt: Q60597](#) Mouse

[SwissProt: Q5XI78](#) Rat

[Unigene: 488181](#) Human



[Unigene: 276348](#) Mouse

[Unigene: 472458](#) Mouse

[Unigene: 45991](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.