

DHTKD1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55517**Specification****DHTKD1 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q96HY7
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	103077

DHTKD1 Polyclonal Antibody - Additional Information**Gene ID** 55526**Other Names**

Probable 2-oxoglutarate dehydrogenase E1 component DHKTD1, mitochondrial, 1.2.4.2, Dehydrogenase E1 and transketolase domain-containing protein 1, DHTKD1, KIAA1630

Dilution

IHC-P ~ ~ N/A
IHC-F ~ ~ N/A
IF ~ ~ 1:50 ~ 200
ICC ~ ~ N/A
E ~ ~ N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

DHTKD1 Polyclonal Antibody - Protein Information**Name** DHTKD1**Synonyms** KIAA1630**Function**

2-oxoadipate dehydrogenase (E1a) component of the 2- oxoadipate dehydrogenase complex (OADHC) (PubMed: [29191460](http://www.uniprot.org/citations/29191460), PubMed: [29752936](http://www.uniprot.org/citations/29752936), PubMed: [32303640](http://www.uniprot.org/citations/32303640), PubMed: [32633484](http://www.uniprot.org/citations/32633484), PubMed: [32695416](http://www.uniprot.org/citations/32695416)). Participates in the first step, rate limiting for the overall conversion of 2-oxoadipate (alpha-ketoadipate) to glutaryl-CoA and CO(2) catalyzed by the whole OADHC (PubMed: [29191460](http://www.uniprot.org/citations/29191460), PubMed: [32695416](http://www.uniprot.org/citations/32695416)).

target="_blank">32695416). Catalyzes the irreversible decarboxylation of 2-oxoadipate via the thiamine diphosphate (ThDP) cofactor and subsequent transfer of the decarboxylated acyl intermediate on an oxidized dihydrolipoyl group that is covalently amidated to the E2 enzyme (dihydrolipoyllysine- residue succinyltransferase or DLST) (Probable) (PubMed:29752936, PubMed:32303640, PubMed:32633484). Can catalyze the decarboxylation of 2-oxoglutarate in vitro, but at a much lower rate than 2-oxoadipate (PubMed:29191460, PubMed:29752936, PubMed:32633484, PubMed:32695416). Responsible for the last step of L-lysine, L-hydroxylysine and L- tryptophan catabolism with the common product being 2-oxoadipate (Probable).

Cellular Location

Mitochondrion.

DHTKD1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DHTKD1 Polyclonal Antibody - Images