



DHTKD1 mouse mAb

Catalog No	YP-mAb-18159
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	DHTKD1 KIAA1630
Immunogen	Synthesized peptide derived from human DHTKD1
Specificity	This antibody detects endogenous levels of DHTKD1 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DHTKD1;KIAA1630;DHTKD1 KIAA1630;Probable 2-oxoglutarate dehydrogenase E1 component DHKTD1;mitochondrial (EC 1.2.4.2) (Dehydrogenase E1 and transketolase domain-containing protein 1); mitochondrial (EC 1.2.4.2) (Dehydrogenase E1 and transketolase domain-containing protein 1)
Observed Band	103 kDa
Calculated Molecular Weight	103 kDa
Cell Pathway	Mitochondrion .
Tissue Specificity	
Function	2-oxoadipate dehydrogenase (E1a) component of the 2-oxoadipate dehydrogenase complex (OADHC) . 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 . 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) . Can catalyze the decarboxylation of 2-oxoglutarate in vitro, but at a much lower rate



than 2-oxoadipate . Responsible for the last step of L-lysine, L-hydroxylysine and L-tryptophan catabolism with the common product being 2-oxoadipate (Probable).

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images