



OGDH mouse mAb

Catalog No	YP-mAb-18124
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	OGDH
Immunogen	Synthesized peptide derived from human OGDH
Specificity	This antibody detects endogenous levels of OGDH 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	2-oxoglutarate dehydrogenase complex component E1;2-oxoglutarate dehydrogenase;mitochondrial;Alpha-ketoglutarate dehydrogenase;Alpha-KGDH-E1;E1 α ;OGDH;mitochondrial (EC 1.2.4.2) (2-oxoglutarate dehydrogenase complex component E1) (OGDC-E1) (Alpha-ketoglutarate dehydrogenase); mitochondrial (EC 1.2.4.2) (2-oxoglutarate dehydrogenase complex component E1) (OGDC-E1) (Alpha-ketoglutarate dehydrogenase)
Observed Band	116 kDa
Calculated Molecular Weight	116 kDa
Cell Pathway	Mitochondrion . Nucleus . Mainly localizes in the mitochondrion. A small fraction localizes to the nucleus, where the 2-oxoglutarate dehydrogenase complex is required for histone succinylation. .
Tissue Specificity	
Function	2-oxoglutarate dehydrogenase (E1 α) component of the 2-oxoglutarate dehydrogenase complex (OGDHC) . Participates in the first step, rate limiting for the overall conversion of 2-oxoglutarate to succinyl-CoA and CO(2) catalyzed by the whole OGDHC . Catalyzes the irreversible decarboxylation of 2-oxoglutarate (alpha-ketoglutarate) 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) . Plays a key role in the Krebs (citric acid) cycle, which is a common pathway for oxidation of fuel molecules, including carbohydrates, fatty acids, and amino acids . Can catalyze the decarboxylation of 2-oxoadipate in vitro, but at a much lower rate than 2-oxoglutarate . Mainly active in the mitochondrion . A fraction

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