

Store at
-20C
#13407**OGDH Antibody**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R Mk	Endogenous	110	Rabbit	#Q02218	4967
Product Usage Information	Application		Dilution			
	Western Blotting		1:1000			
	Immunoprecipitation		1:50			
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.					
Specificity/Sensitivity	OGDH Antibody recognizes endogenous levels of total OGDH protein.					
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala110 of mouse OGDH protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	2-oxoglutarate dehydrogenase (OGDH) is one of three enzymes in the α ketoglutarate dehydrogenase complex (OGDC) that is responsible for catalyzing a rate-regulating step of the tricarboxylic acid (Krebs) cycle. Together with dihydrolipoamide S-succinyltransferase (DLST) and dihydrolipoamide dehydrogenase (DLDD), OGDH helps to convert 2-oxoglutarate to succinyl-CoA and CO ₂ within eukaryotic mitochondria (1). Regulation of this enzyme complex is important for mitochondrial energy metabolism within cells (2). Research studies indicate that OGDH activity within the mitochondrial matrix is regulated by multiple factors, including calcium, the adenine nucleotides ATP and ADP, and NADH (2).					
Background References	<ol style="list-style-type: none"> Sun, R.C. and Denko, N.C. (2014) <i>Cell Metab</i> 19, 285-92. Armstrong, C.T. et al. (2014) <i>Biochem J</i> 459, 369-81. 					

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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