

OGDH (E1W8H) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R Mk	Endogenous	110	Rabbit IgG	#Q60597	18293

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	OGDH (E1W8H) Rabbit mAb recognizes endogenous levels of total OGDH protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu915 of mouse OGDH protein.	
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 (DLD), 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"> 1. Sun, R.C. and Denko, N.C. (2014) <i>Cell Metab</i> 19, 285-92. 2. 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 nonfat dry milk, 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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