Store at -20C

Glutamate Dehydrogenase 1/2 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:		
VV	нмк	Endogenous	52	Raddit	#P00367	2746		
Product Usage		Application	Application Dilution					
Information		Western Blotting	Western Blotting 1:1000					
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.				cerol. Store at –		
Specificity/Sen	ficity/Sensitivity Glutamate Dehydrogenase 1/2 Antibody recognizes endogenous levels of total glutamate dehydrogenase 1 and 2 proteins.				mate			
Source / Purific	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asn339 of human glutamate dehydrogenase 1 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Glutamate dehydrogenase is a mitochondrial enzyme that catalyzes the oxidative deamination of glutamate to α -ketoglutarate through association with the cofactor nicotinamide adenine dinucleotide phosphate (1). Glutamate dehydrogenase is highly expressed in various tissues such as the liver, brain, kidney, heart, pancreas, ovaries, and testis. Two isoforms produced by two distinct genes are found in mammalian tissues. The <i>GLUD1</i> gene is ubiquitously expressed (2), while the <i>GLUD2</i> gene is specifically expressed in testicular tissues and astrocytes (3,4). Glutamate dehydrogenase links glutamate to the Krebs cycle, thereby playing a critical role in the regulation of energy homeostasis. Research studies have shown that changes in glutamate dehydrogenase activity in pancreatic β -cells can cause a hyperinsulinism syndrome (5).						
Background Re	ferences	1. Blumenthal, K.M. et 2. Michaelidis, T.M. et 3. Shashidharan, P. et 4. Zaganas, I. et al. (20 5. Karaca, M. et al. (20	al. (1975) <i>J Biol Che</i> al. (1993) <i>Genomics</i> al. (1997) <i>J Neuroch</i> 12) <i>Neurochem Int</i> 11) <i>Neurochem Int</i>	m 250, 3644-54. 16, 150-60. em 68, 1804-11. 61, 455-62. 59, 510-7.				
Species Reactiv	/ity	Species reactivity is de	termined by testing	g in at least one approve	d application (e.g., v	western blot).		
Western Blot B	DT Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v non dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				5% w/v nonfat			
Applications Ke	ey	W: Western Blotting						
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat						
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