

#5556 Store at -20C

DLST Antibody

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

Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit	UniProt ID: #P36957	Entrez-Gene Id: 1743
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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 and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	DLST Antibody detects endogenous levels of total DLST protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro188 of human DLST protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	α-ketoglutarate dehydrogenase complex is a rate-regulating enzyme in the Krebs Cycle (1). Dihydropyridine succinyltransferase (DLST) is a key subunit in this complex (2). Reduction of DLST increases reactive oxygen species production, suggesting its role in oxidative stress (2). Research has shown that deficiency of DLST in mice is linked to increased oxidative stress in mitochondria, a process that may be involved in the pathogenesis of Alzheimer's disease (2).	
Background References	<ol style="list-style-type: none"> Ohta, S. and Ohsawa, I. (2006) <i>J Alzheimers Dis</i> 9, 155-66. Dumont, M. et al. (2009) <i>Free Radic Biol Med</i> 47, 1019-27. 	
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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