

**DLST (D22G7) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Hm Mk	Endogenous	50	Rabbit IgG	#P36957	1743

**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**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**

DLST (D22G7) Rabbit mAb recognizes endogenous levels of total DLST protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val404 of human DLST protein.

**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**

- Ohta, S. and Ohsawa, I. (2006) *J Alzheimers Dis* 9, 155-66.
- Dumont, M. et al. (2009) *Free Radic Biol Med* 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

**Cross-Reactivity Key**

**H:** Human **M:** Mouse **R:** Rat **Hm:** Hamster **Mk:** Monkey

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