

#11954 Store at -20°C

DLST (D22B1) XP® Rabbit mAb



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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:
WB, IP, IF-IC	H	Endogenous	50	Rabbit IgG	#P36957	1743

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:100

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 (D22B1) XP® 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 Pro188 of human DLST protein.

Background

α-ketoglutarate dehydrogenase complex is a rate-regulating enzyme in the Krebs Cycle (1). Dihydrolipoamide 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

WB: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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