

Store at
-20°C

#11954

DLST (D22B1) XP® Rabbit mAb

www.cellsignal.com

Small 100 µl (10 western blots)
Petite 40 µl (4 western blots)**Support:** 877-678-TECH (8324)
info@cellsignal.com**Orders:** 877-616-CELL (2355)
orders@cellsignal.com**Entrez-Gene ID** #1743
UniProt ID #P36957

rev. 01/05/15

For Research Use Only. Not For Use In Diagnostic Procedures.**Applications**
W, IP, IF-IC
Endogenous**Species Cross-Reactivity***
H**Molecular Wt.**
50 kDa**Isotype**
Rabbit IgG**

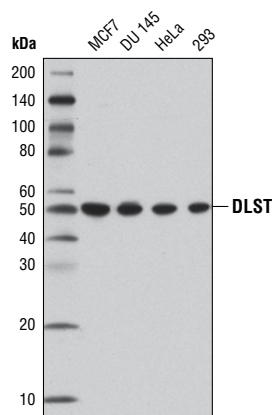
Background: α -ketoglutarate dehydrogenase complex is a rate-regulating enzyme in the Krebs Cycle (1). Dihydrolipoamide succinyltransferase (DLST) is a key subunit in this complex (2). Reduction of DLST increases reactive oxygen species production, suggesting its role in oxidative stress (2). Research 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).

Specificity/Sensitivity: DLST (D22B1) XP® Rabbit mAb recognizes endogenous levels of total DLST protein.

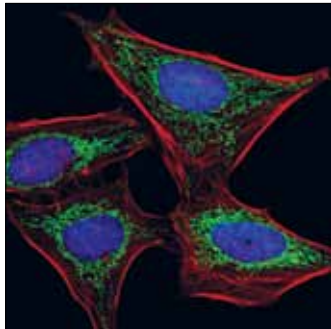
Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro188 of human DLST protein.

Background References:

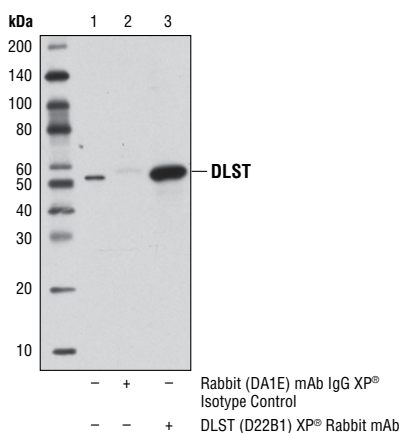
- (1) Ohta, S. and Ohsawa, I. (2006) *J Alzheimers Dis* 9, 155-66.
(2) Dumont, M. et al. (2009) *Free Radic Biol Med* 47, 1019-27.



Western blot analysis of extracts from various cell lines using DLST (D22B1) XP® Rabbit mAb.

HeLa

Confocal immunofluorescent analysis of HeLa cells using DLST (D22B1) XP® Rabbit mAb (green). Actin filaments were labeled with DyLight™ 554 Phalloidin #13054. Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).



Immunoprecipitation of DLST from HeLa cell extracts using Rabbit (DA1E) mAb IgG XP® Isotype Control #3900 (lane 2) or DLST (D22B1) XP® Rabbit mAb (lane 3). Lane 1 is 10% input. Western blot analysis was performed using DLST (D22B1) XP® Rabbit mAb. Mouse Anti-rabbit IgG (Light-Chain Specific) (L57A3) mAb #3677 and Anti-mouse IgG, HRP-linked Antibody #7076 were used as secondary antibodies.

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.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000
Immunoprecipitation 1:50
Immunofluorescence (IF-IC) 1:100

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

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DyLight is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries.
Tween is a registered trademark of ICI Americas, Inc.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected **Species** enclosed in parentheses are predicted to react based on 100% homology.

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