

**DLST Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2899c****Specification**

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**DLST Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P36957](#)**DLST Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 1743**Other Names**

Dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial, 2-oxoglutarate dehydrogenase complex component E2, OGDC-E2, Dihydrolipoamide succinyltransferase component of 2-oxoglutarate dehydrogenase complex, E2K, DLST, DLTS

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2899c](/products/AP2899c) was selected from the Center region of human DLST. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**DLST Antibody (Center) Blocking Peptide - Protein Information****Name** DLST ([HGNC:2911](#))**Synonyms** DLTS**Function**

Dihydrolipoamide succinyltransferase (E2) component of the 2-oxoglutarate dehydrogenase complex. The 2-oxoglutarate dehydrogenase complex catalyzes the overall conversion of 2-oxoglutarate to succinyl-CoA and CO<sub>2</sub>. The 2-oxoglutarate dehydrogenase complex is mainly active in the mitochondrion (PubMed: [29211711](http://www.uniprot.org/citations/29211711), PubMed: [30929736](http://www.uniprot.org/citations/30929736)). A fraction of the 2-oxoglutarate dehydrogenase complex also localizes in the nucleus and is required for lysine succinylation of histones: associates with KAT2A

on chromatin and provides succinyl-CoA to histone succinyltransferase KAT2A (PubMed:<a href="http://www.uniprot.org/citations/29211711" target="\_blank">29211711</a>).

**Cellular Location**

Mitochondrion matrix. Nucleus Note=Mainly localizes in the mitochondrion. A small fraction localizes to the nucleus, where the 2-oxoglutarate dehydrogenase complex is required for histone succinylation.

**DLST Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**DLST Antibody (Center) Blocking Peptide - Images****DLST Antibody (Center) Blocking Peptide - Background**

DLST catalyzes the overall conversion of 2-oxoglutarate to succinyl-CoA and CO<sub>2</sub>. It contains multiple copies of 3 enzymatic components: 2-oxoglutarate dehydrogenase (E1), dihydrolipoamide succinyltransferase (E2) and lipoamide dehydrogenase (E3).

**DLST Antibody (Center) Blocking Peptide - References**

Tu,L.C., et.al., Mol. Cell Proteomics 6 (4), 575-588 (2007)