

For Research Use Only

# DLST Polyclonal antibody

Catalog Number: 31174-1-AP



## Basic Information

<b>Catalog Number:</b> 31174-1-AP	<b>GenBank Accession Number:</b> BC001922	<b>Purification Method:</b> Antigen affinity Purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 1743	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P36957	<b>IHC: 1:300-1:1200</b> <b>IF/ICC: 1:200-1:800</b>
<b>Immunogen Catalog Number:</b> AG34753	<b>Full Name:</b> dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)	
	<b>Calculated MW:</b> 49 kDa	
	<b>Observed MW:</b> 40 kDa, 49 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB : HeLa cells, HepG2 cells, MCF-7 cells
<b>Species Specificity:</b> human	<b>IHC :</b> human placenta tissue, <b>IF/ICC :</b> HeLa cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

DLST (Dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex) is the E2 transferase of  $\alpha$ -ketoglutarate dehydrogenase complex (KGDHC) that regulates the irreversible conversion of  $\alpha$ -ketoglutarate to succinyl-CoA in the TCA cycle. RNAi knockdown of DLST led to decreased cell viability and induction of apoptosis in human T-ALL cell lines. High DLST expression predicts poor overall and recurrence-free survival among TNBC patients (PMID: 26876595, 34785772). DLST has two isoforms of 40 kDa, 49 kDa.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

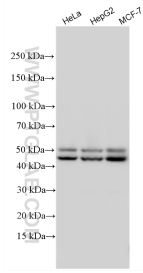
T: 4006900926

E: Proteintech-CN@ptglab.com

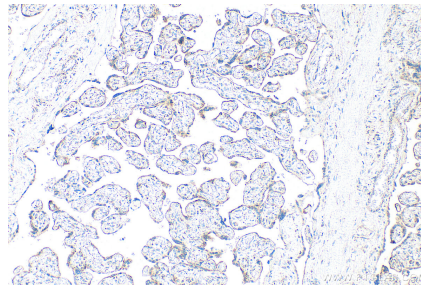
W: ptgcn.com

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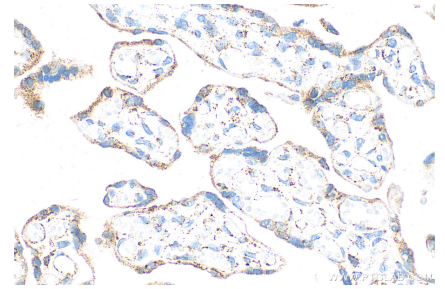
## Selected Validation Data



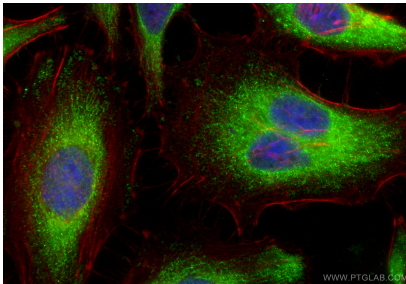
Various lysates were subjected to SDS PAGE followed by western blot with 31174-1-AP (DLST antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 31174-1-AP (DLST antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 31174-1-AP (DLST antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using DLST antibody (31174-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).