

Anti-DLST antibody [9F4BD5] ab110306

★★★★★ [3 Abreviews](#) [2 References](#) [4 Images](#)

Overview

Product name	Anti-DLST antibody [9F4BD5]
Description	Mouse monoclonal [9F4BD5] to DLST
Host species	Mouse
Tested applications	Suitable for: ICC/IF, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Full length native protein (purified). This information is considered to be commercially sensitive.
Positive control	Human HDFn and HL-60 cells
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p> <p>Product was previously marketed under the MitoSciences sub-brand.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	<p>pH: 7.5</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: HEPES buffered saline</p>
Purity	Proprietary Purification
Purification notes	The purity of ab110306 is near homogeneity as judged by SDS-PAGE (purity >95%). The antibody was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.
Clonality	Monoclonal

Clone number	9F4BD5
Isotype	IgG1
Light chain type	kappa

Applications

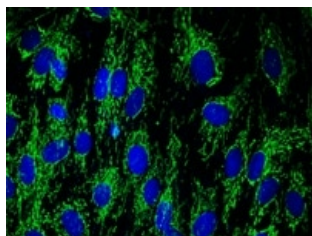
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab110306 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (1)	Use a concentration of 1 µg/ml.
Flow Cyt	★★★★★ (1)	Use a concentration of 1 µg/ml. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

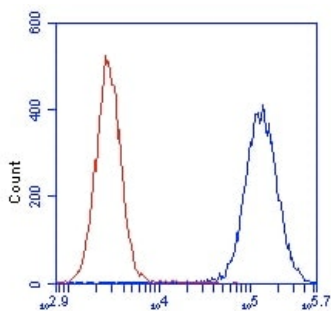
Function	The 2-oxoglutarate dehydrogenase complex catalyzes the overall conversion of 2-oxoglutarate to succinyl-CoA and CO(2). It contains multiple copies of 3 enzymatic components: 2-oxoglutarate dehydrogenase (E1), dihydrolipoamide succinyltransferase (E2) and lipoamide dehydrogenase (E3).
Pathway	Amino-acid degradation; L-lysine degradation via saccharopine pathway; glutaryl-CoA from L-lysine: step 6/6.
Sequence similarities	Belongs to the 2-oxoacid dehydrogenase family. Contains 1 lipoyl-binding domain.
Cellular localization	Mitochondrion.

Images



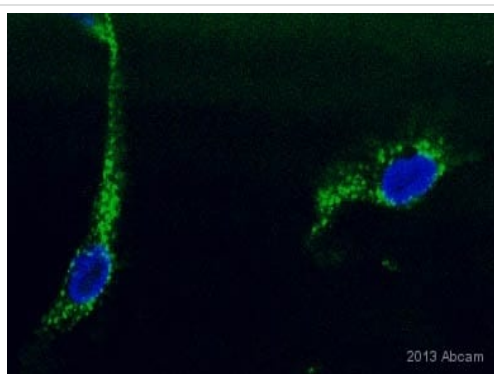
Immunocytochemistry/ Immunofluorescence - Anti-DLST antibody [9F4BD5] (ab110306)

Immunocytochemistry image of ab110306-stained Human HDFn cells. The cells were paraformaldehyde fixed (4%, 20 min) and Triton X-100 permeabilized (0.1%, 15 min). Cells were then incubated with ab110306 at 1 µg/ml for 2 h at room temperature or over night at 4°C. The secondary antibody was (green) Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1 h. 10% Goat serum was used as the blocking agent for all blocking steps. DAPI was used to stain the cell nuclei (blue). Target protein locates mainly in mitochondria.



Flow Cytometry - Anti-DLST antibody [9F4BD5]
(ab110306)

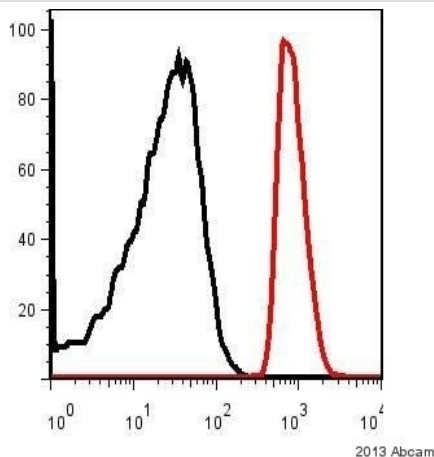
HL-60 cells were stained with 1 µg/mL ab110306 (blue) or an equal amount of an isotype control antibody (red) and analyzed by Flow Cytometry.



Immunocytochemistry/ Immunofluorescence - Anti-DLST antibody [9F4BD5] (ab110306)

This image is courtesy of an anonymous Abreview

ab110306 staining DLST in Human monocyte-derived macrophages by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with Triton X-100 0.1% and blocked with 5% Goat serum for 60 minutes at 21°C. Samples were incubated with primary antibody (1/1000 in PBS + 1% BSA) for 12 hours at 4°C. A Cy2®-conjugated Goat anti-mouse IgG polyclonal was used as the secondary antibody.



Flow Cytometry - Anti-DLST antibody [9F4BD5]
(ab110306)

This image is courtesy of an anonymous Abreview

ab110306 staining DLST in Human monocyte-derived macrophages by Flow Cytometry. Cells were prepared by scraoing in PBS and fixation by paraformaldehyde. The sample was incubated with the primary antibody (1/1000 in PBS + 1% BSA) for 60 minutes at 4°C. An Alexa Fluor®488-conjugated Goat anti-mouse IgG polyclonal(1/100) was used as the secondary antibody.
Gating Strategy: Dead cells excluded.

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