Datasheet for ABIN7266768

anti-DLAT antibody (AA 87-270)

5 Images

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Overview

Quantity:	100 µL
Target:	DLAT
Binding Specificity:	AA 87-270
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DLAT antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	DLAT Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 87-270 of human DLAT (NP_001922.2).
Sequence:	SLPPHQKVPL PSLSPTMQAG TIARWEKKEG DKINEGDLIA EVETDKATVG FESLEECYMA KILVAEGTRD VPIGAIICIT VGKPEDIEAF KNYTLDSSAA PTPQAAPAPT PAATASPPTP SAQAPGSSYP PHMQVLLPAL SPTMTMGTVQ RWEKKVGEKL SEGDLLAEIE TDKATIGFEV QEEG
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

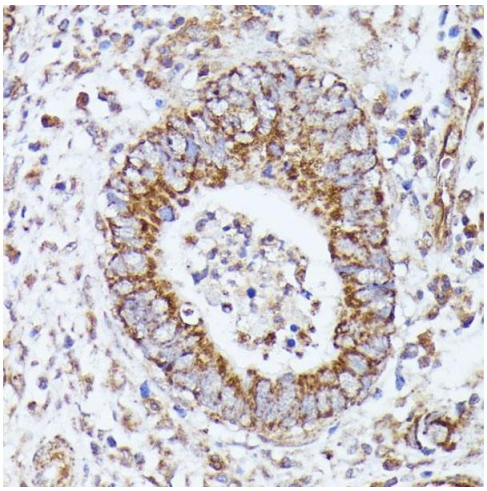
Target:	DLAT
Alternative Name:	DLAT (DLAT Products)
Background:	This gene encodes component E2 of the multi-enzyme pyruvate dehydrogenase complex (PDC). PDC resides in the inner mitochondrial membrane and catalyzes the conversion of pyruvate to acetyl coenzyme A. The protein product of this gene, dihydrolipoamide acetyltransferase, accepts acetyl groups formed by the oxidative decarboxylation of pyruvate and transfers them to coenzyme A. Dihydrolipoamide acetyltransferase is the antigen for antimitochondrial antibodies. These autoantibodies are present in nearly 95 % of patients with the autoimmune liver disease primary biliary cirrhosis (PBC). In PBC, activated T lymphocytes attack and destroy epithelial cells in the bile duct where this protein is abnormally distributed and overexpressed. PBC enventually leads to cirrhosis and liver failure. Mutations in this gene are also a cause of pyruvate dehydrogenase E2 deficiency which causes primary lactic acidosis in infancy and early childhood.,DLAT,DLTA,PDC-E2,PDCE2,Cancer,Signal Transduction,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial markers,Carbohydrate metabolism,DLAT
Molecular Weight:	68kDa
Gene ID:	1737
UniProt:	P10515

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:100,IF,1:50 - 1:200
Restrictions:	For Research Use only

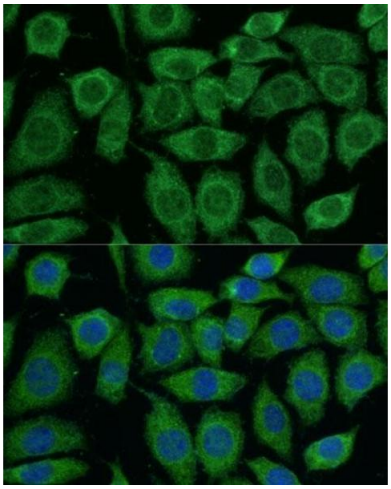
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



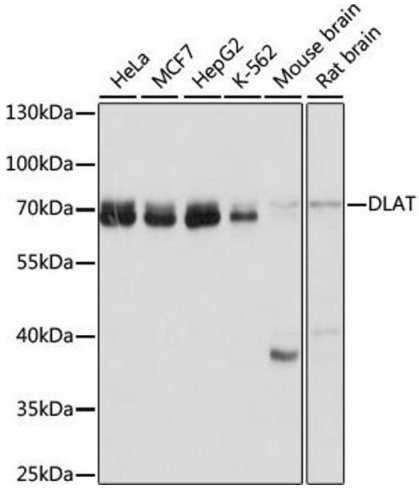
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human colon carcinoma using DLAT antibody (ABIN7266768) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunofluorescence

Image 2. Immunofluorescence analysis of L929 cells using DLAT antibody (ABIN7266768) at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

Image 3. Western blot analysis of extracts of various cell lines, using DLAT antibody (ABIN7266768) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 1s.

Please check the product details page for more images. Overall 5 images are available for ABIN7266768.