For Research Use Only

LIAS Polyclonal antibody

Catalog Number: 11577-1-AP 54 Publications



Basic Information

Catalog Number:

11577-1-AP

BC023635

Concentration:

800 µg/ml

11019

Source:

Rabbit

O43766

Isotype:

GenBank Accession Number:

BC023635

GeneID (NCBI):

11019

UNIPROT ID:

043766

Full Name:

IgG lipoic acid synthetase
Immunogen Catalog Number: Calculated MW:
AG2162 372 aa, 42 kDa

Observed MW: 34-42 kDa Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:1000-1:5000 IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA
Cited Applications:
WB, IHC, IF
Species Specificity:
human, mouse, rat
Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: LO2 cells, HepG2 cells, human brain tissue, Raji cells, K-562 cells, mouse brain tissue, mouse liver tissue, rat liver tissue

IHC: human liver cancer tissue, human lymphoma

Background Information

LIAS(lipoyl synthase, mitochondrial) is also named as LAS and belongs to the radical SAM superfamily and lipoyl synthase family. It produces alpha-lipoic acid, an antioxidant and an essential cofactor in alpha-ketoacid dehydrogenase complexes, which participate in glucose oxidation and ATP generation(PMID:22021711). The deduced 373-amino acid protein has a calculated molecular mass of about 42 kD. The N-terminal 26 amino acids encode a potential mitochondrial targeting presequence that, upon removal, would result in a deduced mature protein of 347 amino acids with a molecular mass of about 39 kD(PMID:11389890). Defects in LIAS are a cause of pyruvate dehydrogenase lipoic acid synthetase deficiency (PDHLD).

Notable Publications

Author	Pubmed ID	Journal	Application
César Vásquez-Trincado	34550363	Hum Mol Genet	WB
Ying Wang	34707288	Nature	WB
Jinke Huang	36389705	Front Immunol	IHC

Storage

Storage

Store at -20°C. Stable for one year after shipment.

Storage Buffer

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

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.co

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

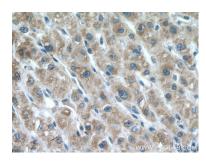
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11577-1-AP (LIAS antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 11577-1-AP (LIAS antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 11577-1-AP (LIAS antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).