

For Research Use Only

LIAS Monoclonal antibody

Catalog Number: 67298-1-Ig **1 Publications**



Basic Information

Catalog Number: 67298-1-Ig	GenBank Accession Number: BC023635	Purification Method: Protein A purification
Size: 1700 ug/ml	GeneID (NCBI): 11019	CloneNo.: 3B5G7
Source: Mouse	UNIPROT ID: O43766	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:500-1:2000
Isotype: IgG1	Full Name: lipoic acid synthetase	
Immunogen Catalog Number: AG27286	Calculated MW: 372 aa, 42 kDa Observed MW: 34-42 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB	WB : LNCaP cells, pig brain tissue, HEK-293 cells, K-562 cells, rat brain tissue, mouse brain tissue
Species Specificity: human, mouse, rat, pig	IHC : mouse brain tissue,
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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
Shuai Yang	38956251	Sci Rep	WB

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:

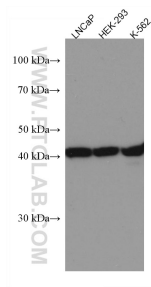
T: 4006900926

E: Proteintech-CN@ptglab.com

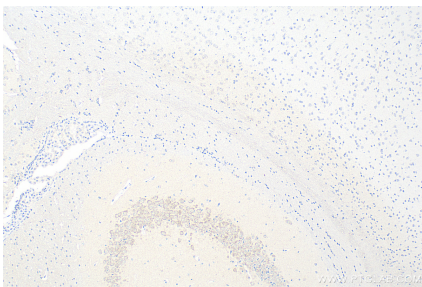
W: ptgcn.com

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

Selected Validation Data



LNCaP cells were subjected to SDS PAGE followed by western blot with 67298-1-Ig (LIAS antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67298-1-Ig (LIAS antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).