

## LIAS Polyclonal Antibody

Catalog number: 11577-1-AP

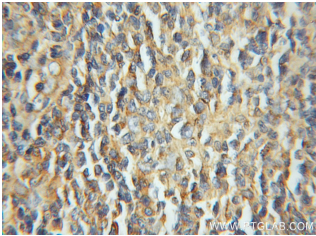
Size: 60 µg/150 µl

Source: Rabbit

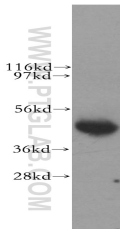
Isotype: IgG

Synonyms:

LIAS; HUSSY 01, LAS, LIAS, Lip syn, LIP1, Lipoate synthase, Lipoic acid synthase, lipoic acid synthetase, Lipoyl synthase, mitochondrial, LS



Immunohistochemical of paraffin-embedded human lymphoma using 11577-1-AP (LIAS antibody) at dilution of 1:100 (under 40x lens)



human brain tissue were subjected to SDS PAGE followed by western blot with 11577-1-AP (LIAS antibody) at dilution of 1:500

### Background

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).

### Applications

Tested applications:	ELISA, WB, IHC
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated LIAS MW:	372aa, 42kd
Observed LIAS MW:	42kd
Positive WB detected in:	Human brain tissue
Positive IHC detected in:	Human lymphoma tissue
Recommended dilution:	WB: 1:500-1:5000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag2162
GenBank accession number:	BC023635
Gene ID (NCBI):	11019
Full name:	Lipoic acid synthetase

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.