

CoraLite® Plus 488-conjugated LIAS

Monoclonal antibody

Catalog Number: **CL488-67298**

Basic Information

Catalog Number:

CL488-67298

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG27286

GenBank Accession Number:

BC023635

GeneID (NCBI):

11019

UNIPROT ID:

O43766

Full Name:

lipoic acid synthetase

Calculated MW:

372 aa, 42 kDa

Observed MW:

34-42 kDa

Purification Method:

Protein G purification

CloneNo.:

3B5G7

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

FC (Intra)

Species Specificity:

Human, Mouse, Rat, Pig

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).

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

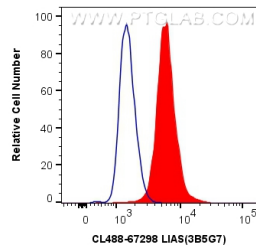
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Selected Validation Data



1×10^6 HepG2 cells were intracellularly stained with 0.4 μ g CoraLite® Plus 488 Anti-Human LIAS (CL488-67298, Clone:3B5G7) (red), or 0.4 μ g Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).