

For Research Use Only

LACTB Polyclonal antibody

Catalog Number: 18195-1-AP

Featured Product

12 Publications



Basic Information

Catalog Number:

18195-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 367 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12233

GenBank Accession Number:

BC067288

GeneID (NCBI):

114294

UNIPROT ID:

P83111

Full Name:

lactamase, beta

Calculated MW:

547 aa, 61 kDa

Observed MW:

50-60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human

Cited Species:

human, mouse

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 : HepG2 cells, human heart tissue, HeLa cells

IHC : human liver cancer tissue,

IF/ICC : HeLa cells,

Background Information

LACTB is also named as MRPL56, which is a component of the large subunit of the mitochondrial ribosome that is encoded by the nuclear genome. LACTB is a mammalian active-site serine protein that has evolved from a bacterial penicillin-binding protein. It promotes intramitochondrial membrane organization and micro-compartmentalization through polymerization (PMID:19858488). Northern blot analysis of mouse tissues detected expression at high levels in liver, heart, and skeletal muscle, with lower levels in kidney, testis, brain, lung, and spleen (PMID:11707067). The full-length of LACTB is about 61kDa, and a 115aa transit peptide can be removed in the mature form. This antibody is specific to LACTB.

Notable Publications

Author	Pubmed ID	Journal	Application
Juan M Gonzalez-Morena	36282364	Apoptosis	WB, IF
Valentina Cutano	36375842	Life Sci Alliance	WB, IHC, IF
Zuzana Keckesova	28329758	Nature	WB, IHC, IF

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

*** 20ul sizes contain 0.1% BSA

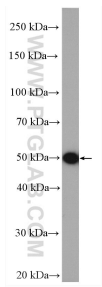
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

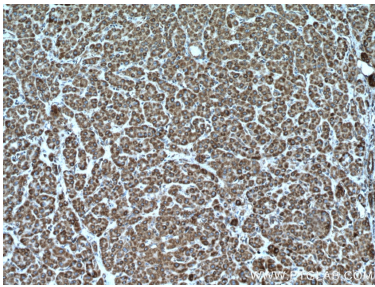
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W: ptglab.com

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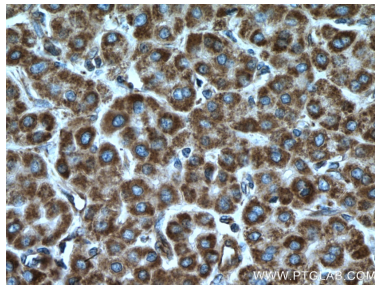
Selected Validation Data



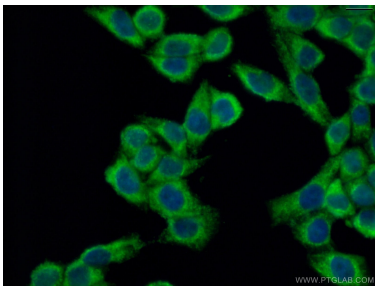
HepG2 cells were subjected to SDS PAGE followed by western blot with 18195-1-AP (LACTB antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 18195-1-AP (LACTB antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 18195-1-AP (LACTB antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 18195-1-AP (LACTB antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).