For Research Use Only

LACTB Monoclonal antibody

Catalog Number:66785-1-Ig Featured Product 3 Publications

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Basic Information

Catalog Number:
66785-1-Ig

Size:
150ul , Concentration: 1600 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

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:
Protein G purification

CloneNo.:
3C3C3

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:150-1:600
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IF, IHC

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 : HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells

IHC : human liver cancer tissue,

IF/ICC : HepG2 cells,

Background Information

LACTB is also named as MRPL56,whic 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Chunxiao Wang	33273855	Cancer Manag Res	WB
Yawen Ma	33675985	Cancer Lett	WB, IHC, IF
Wenhao Ma	38176415	Mol Cell	WB

Storage

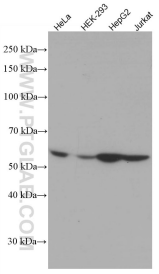
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

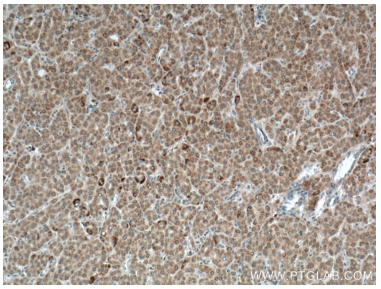
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

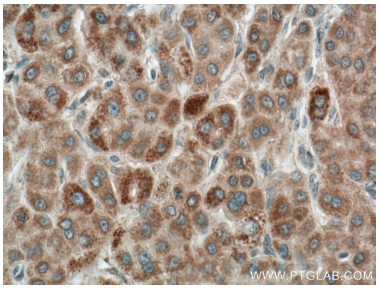
Selected Validation Data



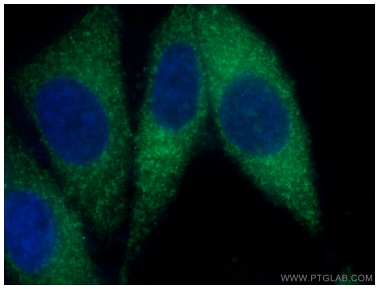
Various lysates were subjected to SDS PAGE followed by western blot with 66785-1-Ig (LACTB antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66785-1-Ig (LACTB antibody) at dilution of 1:300 (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 66785-1-Ig (LACTB antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66785-1-Ig (LACTB antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).