For Research Use Only

FBL Monoclonal antibody

Catalog Number:66985-1-Ig 7 Publications

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Basic Information

Catalog Number:
66985-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG8841

GenBank Accession Number:
BC019260

GeneID (NCBI):
2091

UNIPROT ID:
P22087

Full Name:
fibrillarin

Calculated MW:
321 aa, 34 kDa

Observed MW:
34 kDa

Purification Method:
Protein G purification

CloneNo.:
3A9E8

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:1000-1:4000
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, IF, RIP

Species Specificity:
human, mouse, rat

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

Positive Controls:

WB : HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells

IP : HeLa cells,

IHC : human liver cancer tissue,

IF/ICC : HeLa cells, HepG2 cells

Background Information

Fibrillarin (Fbl) is an essential nucleolar protein that plays an essential role in ribosome biogenesis and more particularly in the methylation of ribosomal RNAs and rDNA histones. FBL is highly expressed in various cancers and correlates with poor survival outcomes in cancer patients,such as hepatocellular carcinoma(PMID: 33376525). Knockdown of FBL sensitizes tumor cells and xenografts to DNA crosslinking agents, and leads to homologous recombination-mediated DNA repair defects(PMID: 37489617).

Notable Publications

Author	Pubmed ID	Journal	Application
Tao Shen	34493285	BMC Biol	WB
Wenyi Wang	33687144	Thorac Cancer	WB
Yu-Meng Sun	39579766	Mol Cell	WB,RIP,IF

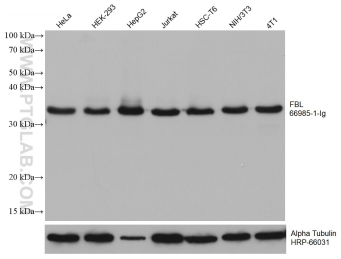
Storage

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

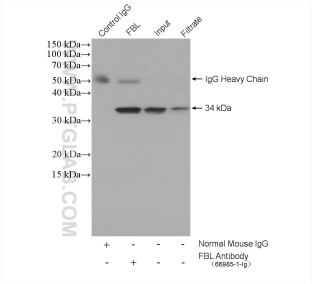
*** 20ul sizes contain 0.1% BSA

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)
E: proteintech@ptglab.com
W: ptglab.com

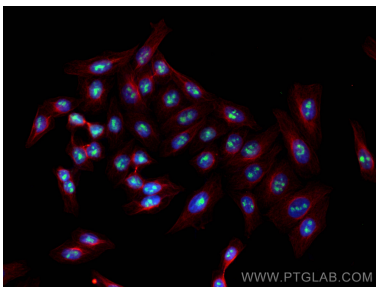
Selected Validation Data



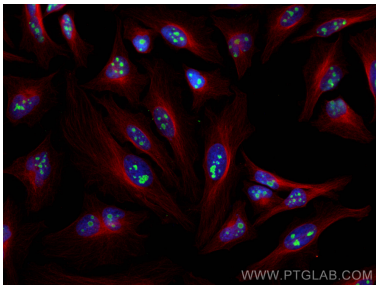
Various lysates were subjected to SDS PAGE followed by western blot with 66985-1-Ig (FBL antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



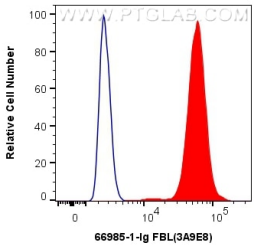
IP result of anti-FBL (IP:66985-1-Ig, 5ug; Detection:66985-1-Ig 1:1000) with HeLa cells lysate 1600 ug.



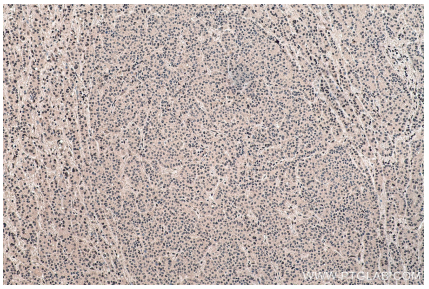
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using FBL antibody (66985-1-Ig, Clone: 3A9E8) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), Alpha Tubulin antibody (11224-1-AP, red).



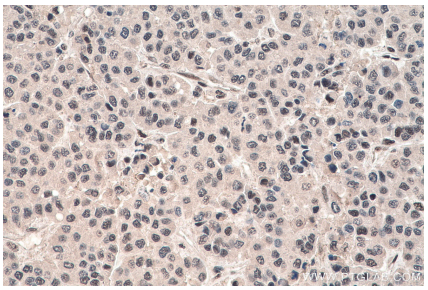
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using FBL antibody (66985-1-Ig, Clone: 3A9E8) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), Alpha Tubulin antibody (11224-1-AP, red).



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human FBL (66985-1-Ig, Clone:3A9E8) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66985-1-Ig (FBL antibody) at dilution of 1:2000 (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 66985-1-Ig (FBL antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).