

For Research Use Only

PNPLA3 Monoclonal antibody

Catalog Number: 67369-1-Ig



Basic Information

Catalog Number: 67369-1-Ig	GenBank Accession Number: BC065195	Purification Method: Protein G purification
Size: 1900 µg/ml	GeneID (NCBI): 80339	CloneNo.: 1D2B11
Source: Mouse	UNIPROT ID: Q9NST1	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:250-1:1000 IF 1:400-1:1600
Isotype: IgG1	Full Name: patatin-like phospholipase domain containing 3	
Immunogen Catalog Number: AG27407	Observed MW: 53 kDa	

Applications

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

Species Specificity:
Human, Rat, pig

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, HepG2 cells, L02 cells, SMMC-7721 cells, HuH-7 cells, HSC-T6 cells

IHC: human liver cancer tissue,

IF: HeLa cells,

Background Information

PNPLA3 belongs to a family of proteins that share a domain that was first identified in patatin, a major soluble protein of potato tubers with nonspecific acyl hydrolase activity. The domain differs from classical lipases by employing a catalytic dyad (Ser-Asp), rather than a catalytic triad, to effect hydrolysis. PNPLA3 is expressed primarily in liver and adipose tissue, in which it partitions to membranes and lipid droplets. Real-time PCR of cDNA from human tissues indicated that PNPLA3 expression was highest in the liver, followed by skin and adipose tissue. PNPLA3 is expressed at the highest levels in adipose tissue of mice. The PNPLA3 protein was expected at 50-70 kDa, as observed; the additional band at approximately 130-150 kDa is a oligomer bands. (PMID: 20385813, PMID: 24931521, PMID: 23023705)

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

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

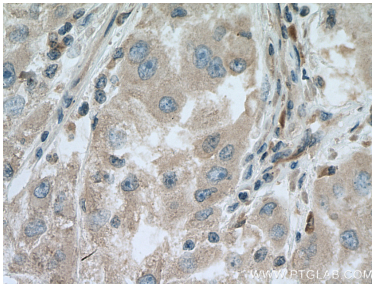
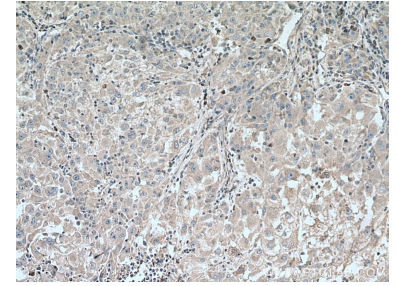
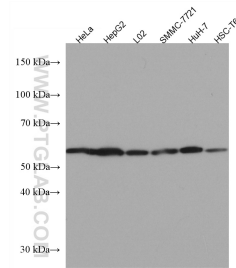
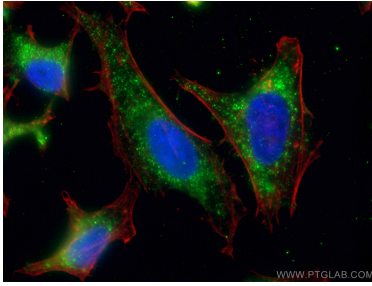
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Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67369-1-Ig (PNPLA3 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).