For Research Use Only

ASGR1 Monoclonal antibody

Catalog Number:66692-1-Ig Featured Product

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
66692-1-Ig

Size:
150ul , Concentration: 1800 μg/ml by Nanodrop and 1000 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG2310

GenBank Accession Number:
BC032130

GeneID (NCBI):
432

Full Name:
asialoglycoprotein receptor 1

Calculated MW:
291 aa, 33 kDa

Observed MW:
42-46 kDa

Purification Method:
Protein G purification

CloneNo.:
1G5F5

Recommended Dilutions:
WB 1:2000-1:10000
IHC 1:500-1:2000
IF 1:200-1:800

Applications

Tested Applications:
IF, IHC, WB, ELISA

Species Specificity:
Human, Mouse, Pig, rat

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 : HuH-7 cells, L02 cells, HepG2 cells, pig liver tissue, mouse hepatocytes, HSC-T6 cells

IHC : human liver tissue,

IF : mouse liver tissue,

Background Information

Asialoglycoprotein receptor (ASGPR), also known as the hepatic galactose/N-acetylglucosamine (GlcNAc) receptor or Ashwell receptor, is a C-type lectin expressed exclusively in hepatic parenchymal cells. ASGPR consists of two subunits, a major subunit (ASGR1, HL-1) and a minor subunit (ASGR2, HL-2), and specifically recognizes terminal β-linked galactose or GlcNAc on circulating glycoproteins or cells. This receptor plays a critical role in serum glycoprotein homeostasis by mediating the endocytosis and lysosomal degradation of glycoproteins that contain terminal galactose or GlcNAc residues. ASGPR may facilitate hepatic infection by multiple viruses including hepatitis B, and is also a target for liver-specific drug delivery.

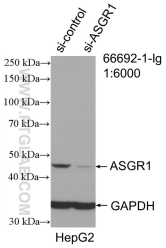
Storage

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

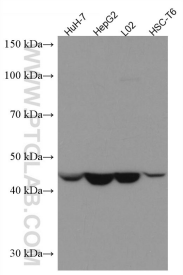
***** 20ul sizes contain 0.1% BSA**

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

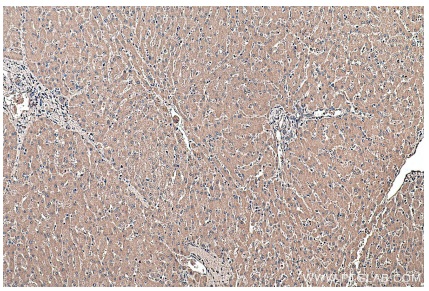
Selected Validation Data



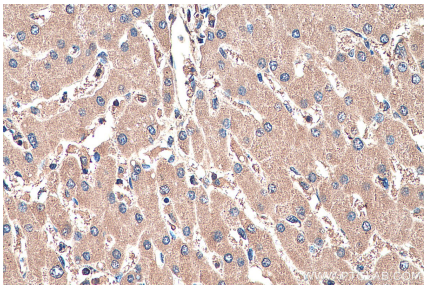
WB result of ASGR1 antibody (66692-1-Ig; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ASGR1 transfected HepG2 cells.



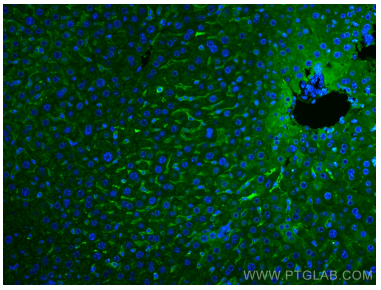
Various lysates were subjected to SDS PAGE followed by western blot with 66692-1-Ig (ASGR1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66692-1-Ig (ASGR1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66692-1-Ig (ASGR1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using ASGR1 antibody (66692-1-Ig, Clone: 1G5F5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).