For Research Use Only

ORM1 Polyclonal antibody

Catalog Number:16439-1-AP Featured Product 10 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
16439-1-AP

Size:
150ul , Concentration: 900 µg/ml by Nanodrop and 447 µg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9758

GenBank Accession Number:
BC026238

GeneID (NCBI):
5004

Full Name:
orosomucoid 1

Calculated MW:
201 aa, 24 kDa

Observed MW:
40-47 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF 1:200-1:800

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse, rat

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 : mouse liver tissue, mouse bladder tissue

IP : human plasma tissue,

IHC : human liver tissue, human liver cancer tissue

IF : HepG2 cells,

Background Information

Alpha-1-acid glycoprotein 1 (AGP1), also called orosomucoid-1 (ORM1), is a glycoprotein synthesized mostly by hepatocytes and present in human plasma. ORM1 is an acute-phase reactant protein controlled by glucocorticoids, interleukin-1 and interleukin-6, and increase up to 5-50 times upon infection and/or inflammation. Anti-apoptotic effect and role as immunomodulator of ORM have been reported. ORM is an important carrier for synthetic drugs and influences their distribution and availability in the body. This antibody recognizes a band about 44 kDa in human plasma which may be due to the glycosylation of ORM1 or the dimer formation of the protein.

Notable Publications

Author	Pubmed ID	Journal	Application
Mehrpouya B Mobin	27665711	Nat Commun	WB
Bing Zhou	36050503	Nat Metab	WB
Luo Qiong	34654351	Bioengineered	IHC

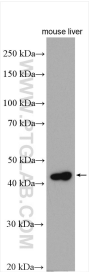
Storage

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

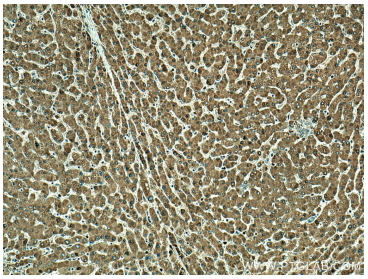
***** 20ul sizes contain 0.1% BSA**

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

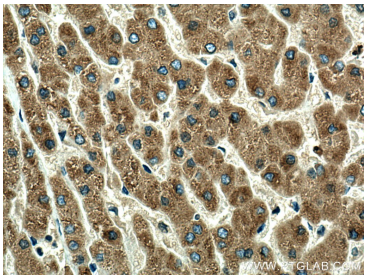
Selected Validation Data



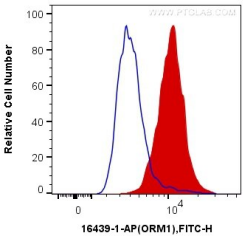
mouse liver tissue were subjected to SDS PAGE followed by western blot with 16439-1-AP (ORM1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



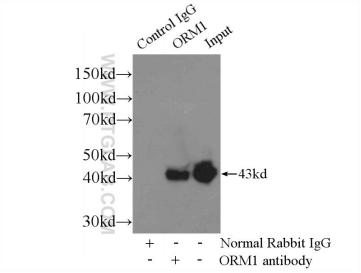
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16439-1-AP (ORM1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



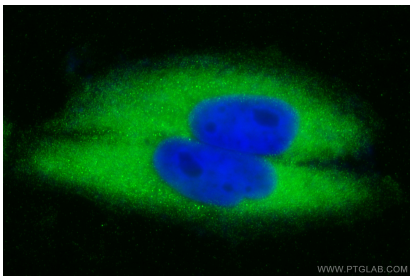
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16439-1-AP (ORM1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human ORM1 (16439-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP Result of anti-ORM1 (IP:16439-1-AP, 3ug; Detection:16439-1-AP 1:300) with human plasma lysate 100ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using ORM1 antibody (16439-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).