

ORM1/2 Monoclonal antibody

 Catalog Number: 66097-1-Ig 1 Publications

Basic Information

Catalog Number: 66097-1-Ig	GenBank Accession Number: BC026238	Purification Method: Protein A purification
Size: 1200 µg/ml	GeneID (NCBI): 5004	CloneNo.: 5F2H7
Source: Mouse	UNIPROT ID: P02763	Recommended Dilutions: WB 1:2000-1:20000 IHC 1:50-1:500 IF/ICC 1:10-1:100
Isotype: IgG1	Full Name: orosomucoid 1	
Immunogen Catalog Number: AG19248	Calculated MW: 201 aa, 24 kDa Observed MW: 40-47 kDa	

Applications

Tested Applications: WB, IF/ICC, IHC, ELISA, FC (Intra)	Positive Controls: WB : human plasma tissue, HuH-7 cells, human testis tissue IHC : human liver cancer tissue, human liver tissue IF/ICC : HepG2 cells,
Cited Applications: WB	
Species Specificity: human	
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	

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. This antibody recognizes both ORM1 and ORM2.

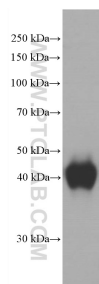
Notable Publications

Author	Pubmed ID	Journal	Application
Luo Qiong	34654351	Bioengineered	WB

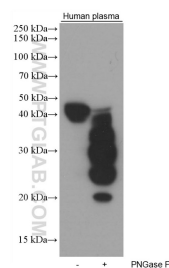
Storage

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

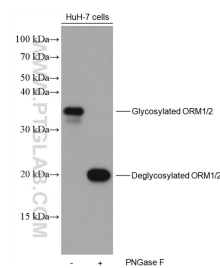
Selected Validation Data



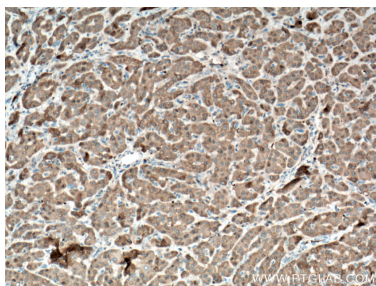
0.8 μ L human plasma were subjected to SDS PAGE followed by western blot with 66097-1-Ig (ORM1/2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



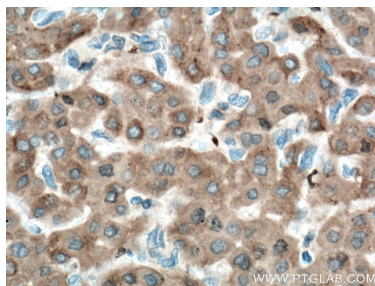
Untreated and PNGase F-treated lysates of human plasma were subjected to SDS PAGE followed by western blot with 66097-1-Ig (ORM1/2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808).



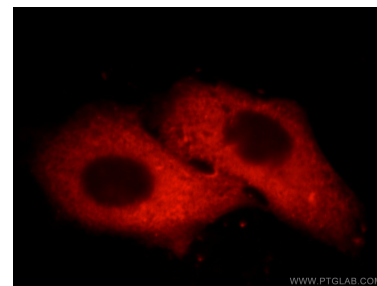
Untreated and PNGase F-treated lysates of HuH-7 cells were subjected to SDS PAGE followed by western blot with 66097-1-Ig (ORM1/2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808).



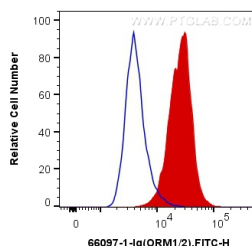
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66097-1-Ig (ORM1/2 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66097-1-Ig (ORM1/2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of () fixed HepG2 cells using 66097-1-Ig (ORM1/2 antibody) at dilution of 1:25.



1X10⁶ HepG2 cells were intracellularly stained with 0.2 μ g Anti-Human ORM1/2 (66097-1-Ig, Clone:5F2H7) and CoraLite[®]488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 μ g Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).