

ORM2-Specific Monoclonal antibody

Catalog Number: 66217-1-Ig

Basic Information

Catalog Number:	66217-1-Ig	GenBank Accession Number:	BC015964	Purification Method:	Protein G purification
Concentration:	1500 ug/ml	GeneID (NCBI):	5005	CloneNo.:	4E9H10
Source:	Mouse	UNIPROT ID:	P19652	Recommended Dilutions:	WB 1:500-1:2000
Isotype:	IgG1	Full Name:	orosomucoid 2	IHC 1:500-1:2000	IF/ICC 1:1000-1:4000
Immunogen Catalog Number:	AG18984	Calculated MW:	24 kDa		
		Observed MW:	45 kDa		

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISASpecies Specificity:
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 : human plasma tissue, A549 cells

IHC : human liver cancer tissue, human colon cancer tissue

IF/ICC : HepG2 cells,

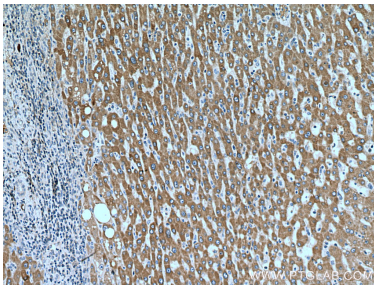
Background Information

ORM2, also named as AGP2 and OMD 2, belongs to the calycin superfamily and Lipocalin family. It functions as transport protein in the blood stream. ORM2 binds various hydrophobic ligands in the interior of its beta-barrel domain. It also binds synthetic drugs and influences their distribution and availability. ORM2 appears to function in modulating the activity of the immune system during the acute-phase reaction. ORM2 is one of the conserved endoplasmic reticulum membrane proteins which regulating lipid homeostasis and protein quality control. This antibody can specially recognize ORM2. It recognizes a band about 45 kDa in human plasma which may be due to the glycosylation of ORM2 or the dimer formation of the protein.

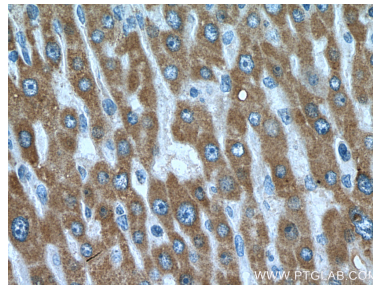
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

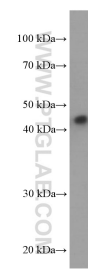
Selected Validation Data



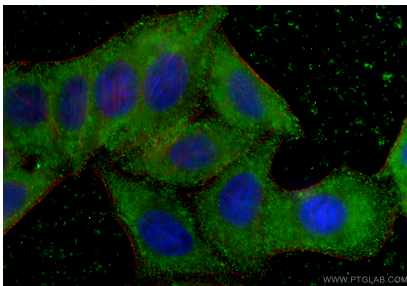
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66217-1-Ig (ORM2-Specific antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66217-1-Ig (ORM2-Specific antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



human plasma were subjected to SDS PAGE followed by western blot with 66217-1-Ig (ORM2-Specific antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using ORM2-Specific antibody (66217-1-Ig, Clone: 4E9H10) at dilution of 1:2000 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-Phalloidin (red).