

For Research Use Only

CD98/SLC3A2 Monoclonal antibody

Catalog Number: 66883-1-Ig **7 Publications**



Basic Information

Catalog Number: 66883-1-Ig	GenBank Accession Number: BC001061	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 6520	CloneNo.: 2B10F5
Source: Mouse	UNIPROT ID: P08195	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:400-1:1600
Isotype: IgG2a	Full Name: solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2	
Immunogen Catalog Number: AG7301	Calculated MW: 68 kDa	
	Observed MW: 85-94 kDa, 120-130 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : HeLa cells, MCF-7 cells, HepG2 cells, HT-29 cells, COLO 320 cells, Caco-2 cells, Jurkat cells IHC : human renal cell carcinoma tissue, human colon cancer tissue, human cervical cancer tissue, human liver cancer tissue IF/ICC : HeLa cells,
Cited Applications: WB, IF	
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

CD98 is a cell-surface heterodimer consisting of a heavy chain (CD98hc) and a light chain. CD98hc also interacts with certain integrin b-subunits to regulate cell migration, survival, proliferation, and adhesion/polarity. CD98hc is overexpressed on the cell surface of many cancers and increased CD98hc expression is associated with the development and progression of tumors.(PMID:25084765). This protein has 4 isoforms with the molecular mass of 58-71 kDa and can be detected 85-94 kDa due to glycosylation. The glycosylated CD98hc can links to a non-glycosylated light chain (~40 kDa) via a disulfide bond to form a heterodimeric CD98 antigen with molecular mass of 120-130 kDa (PMID: 14770309).

Notable Publications

Author	Pubmed ID	Journal	Application
Shunxi Wang	36229881	Cancer Cell Int	WB
Mathilde Mathieu	34282141	Nat Commun	WB
Eleonora Grisard	35790086	J Extracell Vesicles	WB

Storage

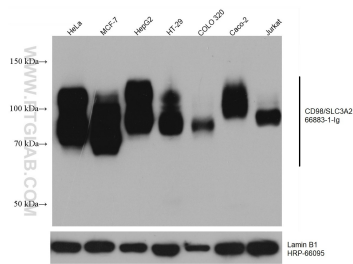
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

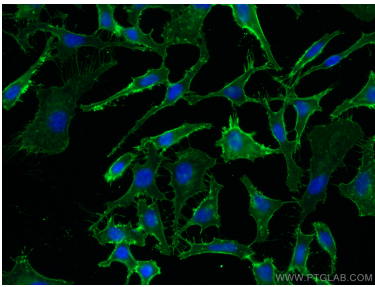
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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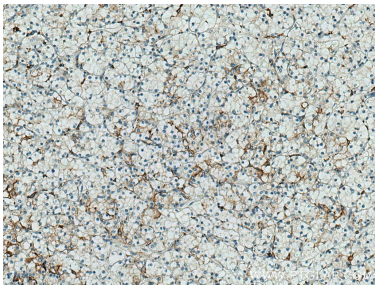
Selected Validation Data



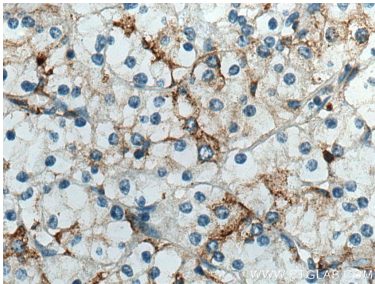
Various lysates were subjected to SDS PAGE followed by western blot with 66883-1-Ig (CD98/SLC3A2 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CD98/SLC3A2 antibody (66883-1-Ig, Clone: 2B10F5) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 66883-1-Ig (CD98/SLC3A2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 66883-1-Ig (CD98/SLC3A2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).