

For Research Use Only

Mouse CD98/SLC3A2 Recombinant monoclonal antibody, PBS Only

Catalog Number: 84040-7-PBS



Basic Information

Catalog Number:	84040-7-PBS	GenBank Accession Number:	NM_008577.4	Purification Method:	Protein A purification
Size:	100ug, Concentration: 1 mg/ml by Nanodrop;	GenID (NCBI):	17254	CloneNo.:	241247F12
Source:	Rabbit	UNIPROT ID:	P10852-1		
Isotype:	IgG	Full Name:	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2		
Immunogen Catalog Number:	EG1374	Calculated MW:	58 kDa		

Applications

Tested Applications:
WB, IHC, Indirect ELISA

Species Specificity:
mouse

Background Information

CD98 is a cell-surface heterodimer consisting of a heavy chain (CD98hc) and a light chain. CD98hc also interacts with certain integrin β -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 link 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).

Storage

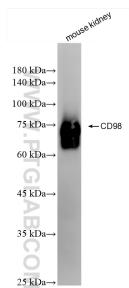
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

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)

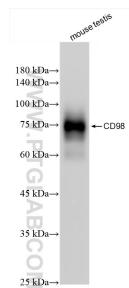
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

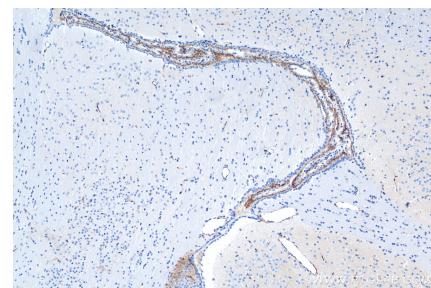
Selected Validation Data



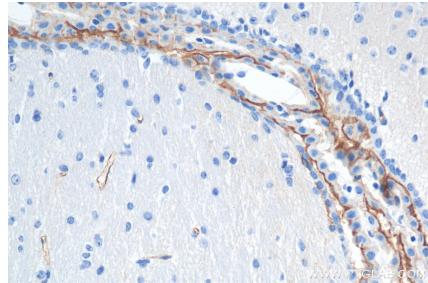
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 84040-7-RR (CD98 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84040-7-PBS in a different storage buffer formulation.



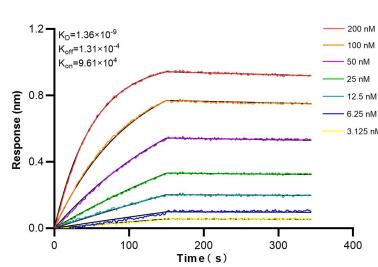
mouse testis tissue were subjected to SDS PAGE followed by western blot with 84040-7-RR (CD98 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84040-7-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84040-7-RR (CD98 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84040-7-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84040-7-RR (CD98 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84040-7-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84040-7-RR against Mouse CD98/SLC3A2 were performed. The affinity constant is 1.36 nM.