

For Research Use Only

CD98/SLC3A2 Recombinant monoclonal antibody

Catalog Number: 84040-7-RR



Basic Information

| | | | | | |
|---------------------------|---|---------------------------|--|------------------------|--|
| Catalog Number: | 84040-7-RR | GenBank Accession Number: | NM_008577.4 | Purification Method: | Protein A purification |
| Size: | 100ul, Concentration: 1000 µg/ml by Nanodrop; | GenID (NCBI): | 17254 | CloneNo.: | 241247F12 |
| Source: | Rabbit | UNIPROT ID: | P10852-1 | Recommended Dilutions: | WB: 1:5000-1:50000 IHC: 1:1000-1:4000 |
| 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, ELISA | Positive Controls: | |
| Species Specificity: | mouse | WB: | mouse kidney tissue, mouse testis tissue |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | | | IHC: mouse brain tissue, mouse kidney tissue |

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

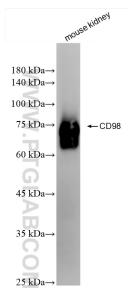
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

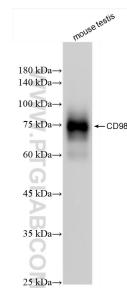
For technical support and original validation data for this product please contact:
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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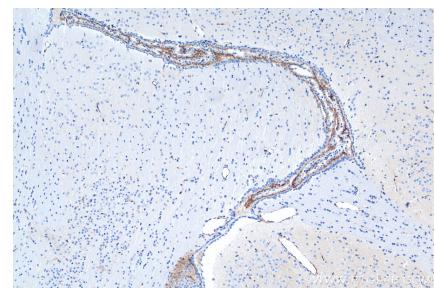
Selected Validation Data



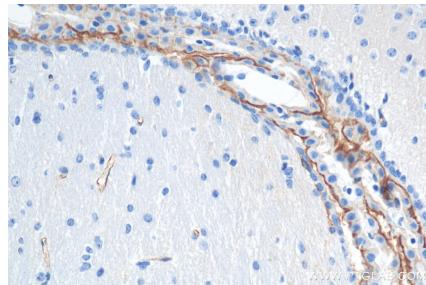
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 84040-7-RR (CD98 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



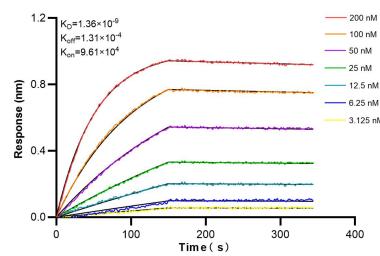
mouse testis tissue were subjected to SDS PAGE followed by western blot with 84040-7-RR (CD98 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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).



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).



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