

For Research Use Only

# SLC6A8 Recombinant monoclonal antibody

Catalog Number: 88049-1-RR



## Basic Information

|                                                                |                                                                                                 |                                                       |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| <b>Catalog Number:</b><br>88049-1-RR                           | <b>GenBank Accession Number:</b><br>BC012355                                                    | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>6535                                                                   | <b>CloneNo.:</b><br>260302B8                          |
| <b>Source:</b><br>Rabbit                                       | <b>UNIPROT ID:</b><br>P48029                                                                    | <b>Recommended Dilutions:</b><br>WB: 1:2000-1:10000   |
| <b>Isotype:</b><br>IgG                                         | <b>Full Name:</b><br>solute carrier family 6 (neurotransmitter transporter, creatine), member 8 |                                                       |
| <b>Immunogen Catalog Number:</b><br>AG14500                    | <b>Calculated MW:</b><br>635 aa, 71 kDa                                                         |                                                       |
|                                                                | <b>Observed MW:</b><br>65-75 kDa                                                                |                                                       |

## Applications

|                                                  |                                                                                                                |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b><br>WB, ELISA         | <b>Positive Controls:</b><br>WB : rat kidney tissue, mouse heart tissue, mouse kidney tissue, rat heart tissue |
| <b>Species Specificity:</b><br>human, mouse, rat |                                                                                                                |

## Background Information

SLC6A8, also known as the sodium- and chloride-dependent creatine transporter 1 (CT1), plays a critical role in transporting creatine, a crucial molecule for energy metabolism, into cells. SLC6A8 belongs to the solute carrier family 6 (SLC6), responsible for transporting diverse molecules across cell membranes. SLC6A8 expression is highest in muscle, kidney, and other tissues with high energy demands. Mutations in SLC6A8 cause creatine transporter deficiency, an X-linked mental retardation disorder (PMID: 17465020). The 75 kDa band is a glycosylated modified form.

## Storage

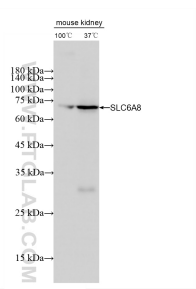
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

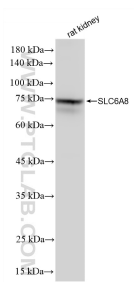
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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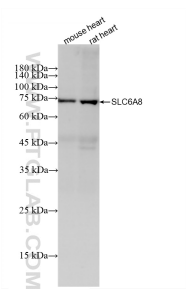
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88049-1-RR (SLC6A8 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



rat kidney tissue were subjected to SDS PAGE followed by western blot with 88049-1-RR (SLC6A8 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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