

For Research Use Only

# SLC38A7 Recombinant antibody

Catalog Number:83346-6-RR



## Basic Information

<b>Catalog Number:</b> 83346-6-RR	<b>GenBank Accession Number:</b> BC001961	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 55238	<b>CloneNo.:</b> 240147C3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NVC3	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG	<b>Full Name:</b> solute carrier family 38, member 7	
<b>Immunogen Catalog Number:</b> AG35081	<b>Calculated MW:</b> 50 kDa	
	<b>Observed MW:</b> 37 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra), ELISA	<b>Positive Controls:</b> WB : Caco-2 cells, human liver tissue
<b>Species Specificity:</b> human	

## Background Information

SLC38A7 also known as SNAT7, is a member of the SLC38 family that encodes sodium-coupled neutral amino acid transporters. SLC38A7 is a system N transporter that has a substrate preference for L-glutamine. It also transports other amino acids with polar side chains, as well as L-histidine and L-alanine (PMID: 21511949).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

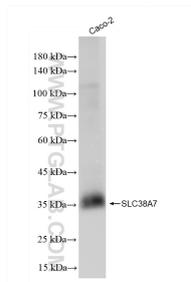
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

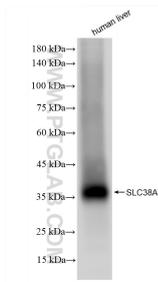
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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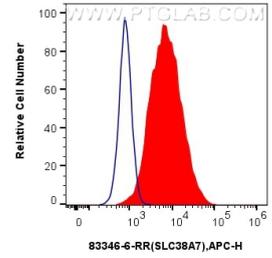
## Selected Validation Data



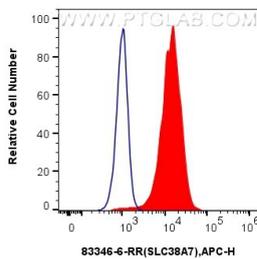
Caco-2 cells were subjected to SDS PAGE followed by western blot with 83346-6-RR (SLC38A7 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



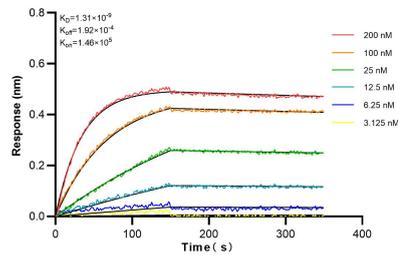
human liver tissue were subjected to SDS PAGE followed by western blot with 83346-6-RR (SLC38A7 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  Caco-2 cells were intracellularly stained with 0.25  $\mu$ g SLC38A7 Recombinant antibody (83346-6-RR, Clone:240147C3) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



$1 \times 10^6$  U-251 cells were intracellularly stained with 0.25  $\mu$ g SLC38A7 Recombinant antibody (83346-6-RR, Clone:240147C3) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83346-6-RR against Human SLC38A7 were performed. The affinity constant is 1.31 nM.