

For Research Use Only

# SLC38A7 Polyclonal antibody

Catalog Number: 31486-1-AP



## Basic Information

<b>Catalog Number:</b> 31486-1-AP	<b>GenBank Accession Number:</b> BC001961	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 150ul , Concentration: 450 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 55238	<b>Recommended Dilutions:</b> IHC 1:50-1:500 IF-P 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NVC3	
<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	

## Applications

<b>Tested Applications:</b> IHC, IF-P, ELISA	<b>Positive Controls:</b> IHC : mouse brain tissue, IF-P : mouse brain tissue,
<b>Species Specificity:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

SLC38A7 also known as SNAT7, is a system N transporter with a substrate preference for L-glutamine (PMID: 21511949). SLC38A7 symporter that selectively transports sodium ions and amino acids, such as L-glutamine and L-asparagine from the lysosome into the cytoplasm and may participate in mTORC1 activation (PubMed:28416685, PubMed:35561222). colocalization of SLC38a7 with neuronal markers in excitatory and inhibitory neurons, but not in astrocytes or glial cells.

## 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

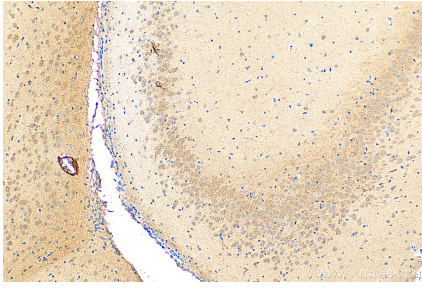
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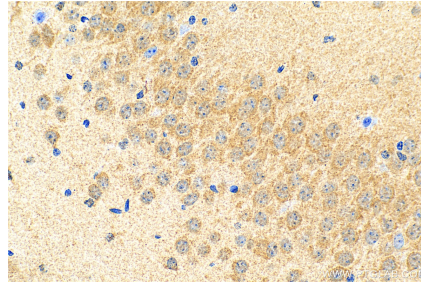
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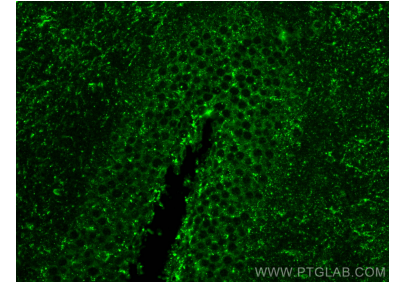
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 31486-1-AP (SLC38A7 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 31486-1-AP (SLC38A7 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using SLC38A7 antibody (31486-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).