

## Anti-SLC38A1 Polyclonal Antibody

### Product Details

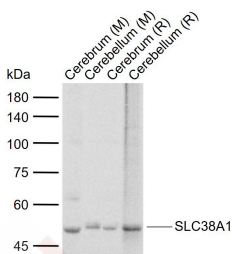
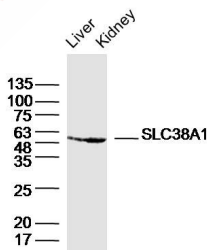
Ig Type: IgG  
Reactivity: Mouse,Rat (predicted:Human,Pig,Cow,GuineaPig,Cat)  
Molecular Weight: Theoretical: 54 kDa. Actual: 50 kDa.  
Purification: Protein A purified

### Applications

1. Sample:  
Liver (Mouse) Lysate at 40 µg  
Kidney (Mouse) Lysate at 40 µg  
Primary: Anti-SLC38A1 (TMAB-01720) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 54 kDa  
Observed band size: 54 kDa

2. Sample:  
Lane 1: Mouse Cerebrum tissue lysates  
Lane 2: Mouse Cerebellum tissue lysates  
Lane 3: Rat Cerebrum tissue lysates  
Lane 4: Rat Cerebellum tissue lysates  
Primary: Anti-SLC38A1 (TMAB-01720) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 54 kDa  
Observed band size: 50 kDa

Verified Activity:



Application: WB  
Recommended WB: 1:500-2000

## A DRUG SCREENING EXPERT

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### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human SLC38A1

Antigen Species: Human

Gene ID: 81539

Uniprot ID: Q9H2H9

Synonyms: Amino acid transporter A1;N-system amino acid transporter 2;ATA1;ATA 1;System N amino acid transporter 1;System A amino acid transporter 1;SAT 1;Amino acid transporter system A1;Solute carrier family 38 member 1;Sodium-coupled neutral amino acid transporter 1;NAT2;NAT 2;SNAT1;S38A1;SNAT 1;SAT1

Biology Area: Amino acid metabolism,Amino Acids,Channels

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### Research Background

Amino acid transporters play essential roles in the uptake of nutrients, production of energy, chemical metabolism, detoxification, and neurotransmitter cycling. SLC38A1 is an important transporter of glutamine, an intermediate in the detoxification of ammonia and the production of urea. Glutamine serves as a precursor for the synaptic transmitter, glutamate (Gu et al., 2001 [PubMed 11325958]).[supplied by OMIM, Mar 2008]

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