

**PAT2 (Slc36a2) Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP1424b****Specification**

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**PAT2 (Slc36a2) Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q8K415](#)**PAT2 (Slc36a2) Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 246235**Other Names**

Proton-coupled amino acid transporter 2, Proton/amino acid transporter 2, rPAT2, Solute carrier family 36 member 2, Tramdorin-1, Slc36a2, Pat2, Tramdl

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1424b](/product/products/AP1424b) was selected from the Slc36a2 region of human PAT2 (Slc36a2). A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PAT2 (Slc36a2) Antibody (C-term) Blocking Peptide - Protein Information****Name** Slc36a2 {ECO:0000312|RGD:620492}**Function**

Electrogenic proton/amino acid symporter with a high selectivity for the small side chains amino acids glycine, alanine and proline, where both L- and D-enantiomers are transported. Extension of the backbone length, as in beta-alanine and 4-aminobutanoate or methylation of the amino group, as in sarcosine and N,N- dimethylglycine, are also tolerated but decrease transport efficiency. A free carboxyl group is preferred.

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q8BHK3}. Recycling endosome membrane {ECO:0000250|UniProtKB:Q8BHK3}

**Tissue Location**

Expressed in lung and spleen, and to a lower extent in brain, heart, kidney and skeletal muscle

**PAT2 (Slc36a2) Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**PAT2 (Slc36a2) Antibody (C-term) Blocking Peptide - Images****PAT2 (Slc36a2) Antibody (C-term) Blocking Peptide - Background**

PAT2 is involved in a pH-dependent electrogenic neuronal transport and sequestration of small amino acids amino acids such as glycine, alanine and proline. It is inhibited by sarcosine.

**PAT2 (Slc36a2) Antibody (C-term) Blocking Peptide - References**

Bermingham, J.R. Jr., Mamm. Genome 15 (2), 114-125 (2004) Rubio-Aliaga, I., J. Biol. Chem. 279 (4), 2754-2760 (2004) Boll, M., Genomics 82 (1), 47-56 (2003) Boll, M., J. Biol. Chem. 277 (25), 22966-22973 (2002)