

**SLC36A1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12170A**

**Specification**

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**SLC36A1 Antibody (N-term) - Product Information**

Application	IF, WB, IHC-P, FC,E
Primary Accession	<a href="#">Q7Z2H8</a>
Other Accession	<a href="#">Q924A5</a> , <a href="#">Q8K4D3</a> , <a href="#">NP_510968.2</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	53076
Antigen Region	1-30

**SLC36A1 Antibody (N-term) - Additional Information**

**Gene ID** 206358

**Other Names**

Proton-coupled amino acid transporter 1, Proton/amino acid transporter 1, hPAT1, Solute carrier family 36 member 1, SLC36A1, PAT1

**Target/Specificity**

This SLC36A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human SLC36A1.

**Dilution**

IF~~1:10~50  
WB~~1:1000  
IHC-P~~1:10~50  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

SLC36A1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**SLC36A1 Antibody (N-term) - Protein Information**

**Name** SLC36A1 ([HGNC:18761](#))

**Function** Electrogenic proton/amino acid symporter with selectivity for small apolar L-amino acids, their D-enantiomers and selected amino acid derivatives such as 4-aminobutanoate/GABA (PubMed:[12809675](#), PubMed:[12527723](#), PubMed:[19549785](#)). May be involved in the efflux from the lysosomal compartment of neutral amino acids resulting from proteolysis (By similarity). May play a role in specifying sites for exocytosis in neurons (By similarity).

**Cellular Location**

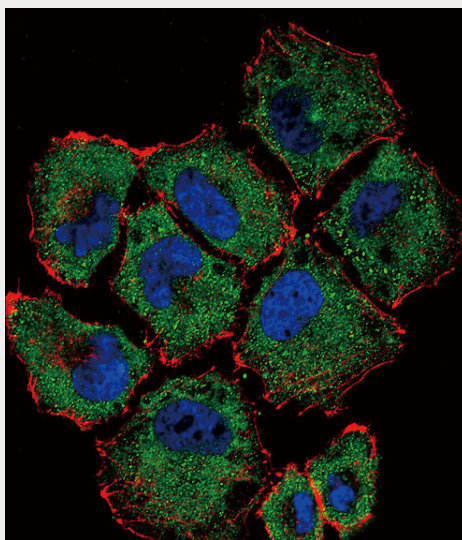
Cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein. Note=In neurons, colocalizes with the exocyst complex in the axonal processes {ECO:0000250|UniProtKB:Q924A5}

**SLC36A1 Antibody (N-term) - Protocols**

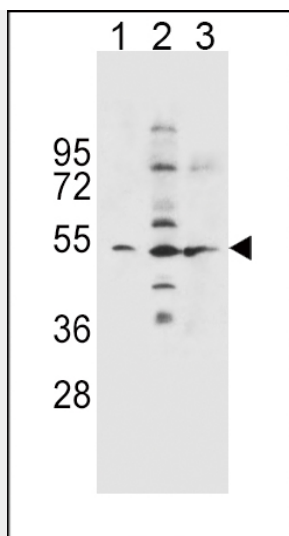
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

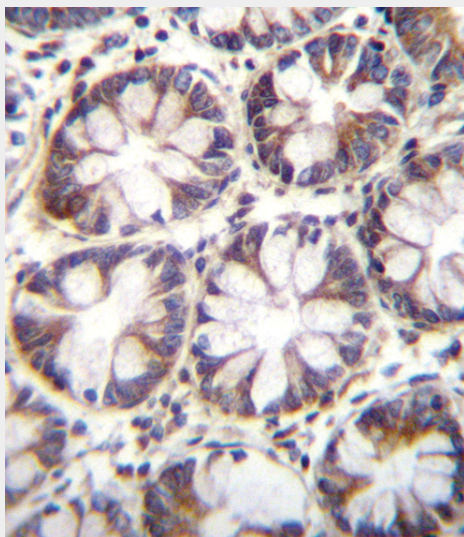
**SLC36A1 Antibody (N-term) - Images**



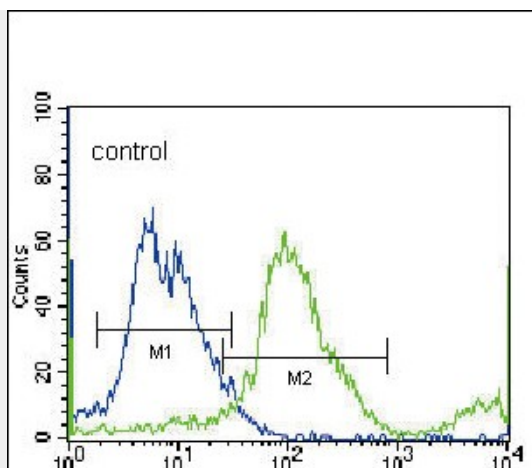
Confocal immunofluorescent analysis of SLC36A1 Antibody (N-term)(Cat#AP12170a) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).



SLC36A1 Antibody (N-term) (Cat. #AP12170a) western blot analysis in NCI-H460(lane 1),K562(lane 2),A549(lane 3) cell line lysates (35ug/lane).This demonstrates the SLC36A1 antibody detected the SLC36A1 protein (arrow).



SLC36A1 Antibody (N-term) (Cat. #AP12170a)immunohistochemistry analysis in formalin fixed and paraffin embedded human rectum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SLC36A1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



SLC36A1 Antibody (N-term) (Cat. #AP12170a) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

### **SLC36A1 Antibody (N-term) - Background**

This gene encodes a member of the eukaryote-specific amino acid/auxin permease (AAP) 1 transporter family. The encoded protein functions as a proton-dependent, small amino acid transporter. This gene is clustered with related family members on chromosome 5q33.1.

### **SLC36A1 Antibody (N-term) - References**

- Dorn, M., et al. J. Biol. Chem. 284(33):22123-22132(2009)
- Dorn, M., et al. FEBS Lett. 583(10):1631-1636(2009)
- Metzner, L., et al. Mol. Pharm. 6(3):1006-1011(2009)
- Anderson, C.M., et al. J. Physiol. (Lond.) 587 (PT 4), 731-744 (2009) :
- Metzner, L., et al. Biochim. Biophys. Acta 1778(4):1042-1050(2008)