

SLC33A1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54204**Specification**

SLC33A1 Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O00400
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC33A1
Epitope Specificity	481-549/549
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane; Multi-pass membrane protein (Probable). Belongs to the SLC33A transporter family.
SIMILARITY	Defects in SLC33A1 are the cause of spastic paraplegia autosomal dominant type 42 (SPG42) [MIM:612539]. Spastic paraplegia is a neurodegenerative disorder characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs. Rate of progression and the severity of symptoms are quite variable. Initial symptoms may include difficulty with balance, weakness and stiffness in the legs, muscle spasms, and dragging the toes when walking. In some forms of the disorder, bladder symptoms (such as incontinence) may appear, or the weakness and stiffness may spread to other parts of the body
DISEASE	
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

Acetyl-coenzyme A transporter 1 is required for the formation of O-acetylated (Ac) gangliosides. It is predicted to contain 6 to 10 transmembrane domains, and a leucine zipper motif in transmembrane domain III. Studies indicate that the protein is localized to the cytoplasm.

SLC33A1 Polyclonal Antibody - Additional Information

Gene ID 9197**Other Names**

Acetyl-coenzyme A transporter 1, AT-1, Acetyl-CoA transporter 1, Solute carrier family 33 member 1, SLC33A1, ACATN, AT1

Target/Specificity

Ubiquitous. Detected in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. With strongest signals in pancreas.

Dilution

WB~1:1000
IHC-P~N/A
IHC-F~N/A
IF~1:50~200
E~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

SLC33A1 Polyclonal Antibody - Protein Information

Name SLC33A1 ([HGNC:95](#))

Synonyms ACATN, AT1

Function

Acetyl-CoA transporter that mediates active acetyl-CoA import through the endoplasmic reticulum (ER) membrane into the ER lumen where specific ER-based acetyl-CoA:lysine acetyltransferases are responsible for the acetylation of ER-based protein substrates, such as BACE1 (PubMed: [20826464](http://www.uniprot.org/citations/20826464)), PubMed: [24828632](http://www.uniprot.org/citations/24828632)). Necessary for O-acetylation of gangliosides (PubMed: [9096318](http://www.uniprot.org/citations/9096318)).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

Ubiquitous. Detected in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. With strongest signals in pancreas.

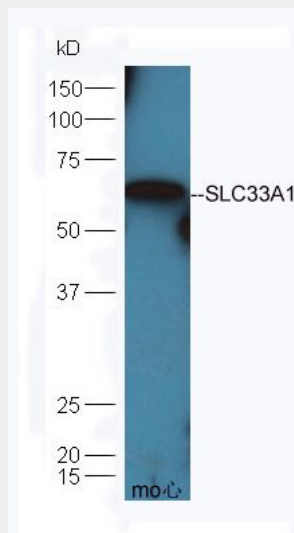
SLC33A1 Polyclonal Antibody - Protocols

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](#)

SLC33A1 Polyclonal Antibody - Images



Protein: heart(mouse) lysates at 30ug;

Primary: rabbit Anti-SLC33A1 (bs-0669R) at 1:300;

Secondary: HRP conjugated Goat-Anti-rabbit IgG(bs-0295G-HRP) at 1: 5000;

Predicted band size:61 kD

Observed band size:61 kD