




## Product datasheet

### Anti-SV2A antibody ab77177

3 Images

#### Overview

<b>Product name</b>	Anti-SV2A antibody
<b>Description</b>	Goat polyclonal to SV2A
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human <b>Predicted to work with:</b> Mouse, Horse, Cow, Dog, Pig, Chimpanzee, Zebrafish, Rhesus monkey 
<b>Immunogen</b>	Synthetic peptide: C-TVELYPSDKRTTA , corresponding to internal sequence amino acids 673-685 of Human SV2A (NP_055664.2)  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: Rat brain tissue lysate. ICC: KNRK and U-2 OS cells.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, 0.5% Tris buffered saline
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab77177 was purified by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunising peptide.
<b>Clonality</b>	Polyclonal

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab77177 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.3 - 1 µg/ml. Detects a band of approximately 80 kDa (predicted molecular weight: 83 kDa). A 1 hour primary incubation is recommended for this product.
ICC		Use a concentration of 10 µg/ml.

## Target

### Function

Plays a role in the control of regulated secretion in neural and endocrine cells, enhancing selectively low-frequency neurotransmission. Positively regulates vesicle fusion by maintaining the readily releasable pool of secretory vesicles.

### Sequence similarities

Belongs to the major facilitator superfamily.

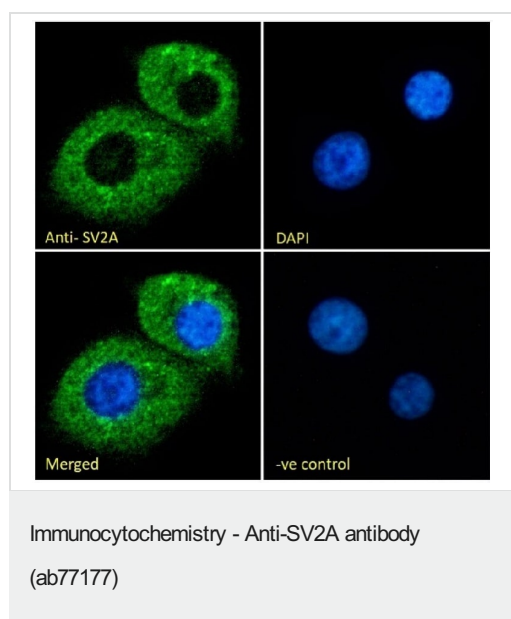
### Post-translational modifications

Phosphorylation by CK1 of the N-terminal cytoplasmic domain regulates interaction with SYT1. N-glycosylated.

### Cellular localization

Cytoplasmic vesicle > secretory vesicle > synaptic vesicle membrane. Enriched in chromaffin granules, not present in adrenal microsomes. Associated with both insulin granules and synaptic-like microvesicles in insulin-secreting cells of the pancreas.

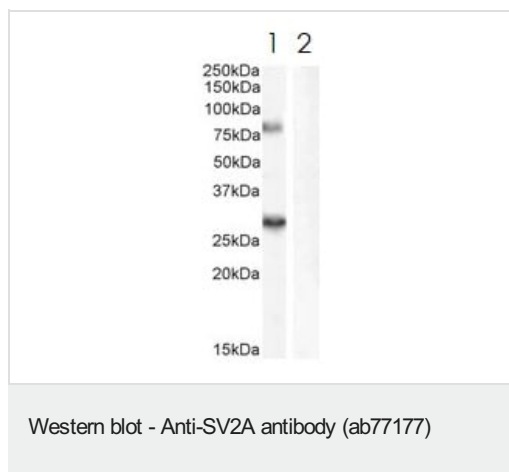
## Images



Immunofluorescence analysis of KNRK (rat normal kidney cell line) cells labelling SV2A with ab77177 at 10 µg/mL.

Cells were permeabilized with 0.15% Triton X-100. Alexa Fluor 488<sup>®</sup> secondary antibody (2 µg/mL) was used as the secondary antibody (green). Nuclear DNA was labeled with DAPI (blue).

**Negative control:** Unimmunized goat IgG (10 µg/mL) followed by Alexa Fluor 488<sup>®</sup> secondary antibody (2 µg/mL).



**All lanes :** Anti-SV2A antibody (ab77177) at 0.3 µg/ml

**Lane 1 :** Rat brain lysate in RIPA buffer

**Lane 2 :** Rat brain lysate in RIPA buffer treated with immunising peptide

Lysates/proteins at 35 µg per lane.

Developed using the ECL technique.

**Predicted band size:** 83 kDa

**Observed band size:** 80 kDa

Primary antibody incubation: 1 hour at room temperature.

An additional band of unknown identity was also consistently observed at 28kDa, which was successfully blocked by incubation with the immunising peptide.



Immunofluorescence analysis of U-2 OS (Human bone osteosarcoma epithelial cell line) cells labelling SV2A with ab77177 at 10 µg/mL.

Cells were permeabilized with 0.15% Triton X-100. Alexa Fluor 488® secondary antibody (2 µg/mL) was used as the secondary antibody (green). Nuclear DNA was labeled with DAPI (blue).

**Negative control:** Unimmunized goat IgG (10 µg/mL) followed by Alexa Fluor 488® secondary antibody (2 µg/mL).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish

- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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#### **Terms and conditions**

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