abcam

Product datasheet

Anti-SV2C antibody ab33892

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Overview

Product name	Anti-SV2C antibody
Description	Rabbit polyclonal to SV2C
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB, IHC-FoFr
Species reactivity	**Reacts with:** Mouse, Rat **Predicted to work with:** Human
Immunogen	Synthetic peptide corresponding to Rat SV2C aa 1-100 conjugated to keyhole limpet haemocyanin. (Peptide available as **ab33891**)
General notes	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. 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&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab33892 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
ICC/IF		
WB		
IHC-FoFr	★★★★☆ (1)	

Application notes ICC/IF: Use at a concentration of 1 µg/ml.
WB: Use at a concentration of 1 µg/ml. Detects a band of approximately 82 kDa (predicted molecular weight: 82 kDa).

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Relevance SV2s (Synaptic Vesicle protein 2) are integral membrane glycoproteins present in all synaptic vesicles. They have 12 transmembrane domains predicted by sequence analysis. There are three characterized isoforms, SV2A, SV2B and SV2C. SV2A is expressed ubiquitously throughout the brain. SV2B has a more restricted distribution with varying degrees of coexpression with SV2A. SV2C is more closely related to SV2A but shows a very restricted expression pattern; the highest expression levels being observed in phylogenetically old brain areas like pallidum, the midbrain and the olfactory bulb.

Cellular localization Integral Membrane Protein

Images

Western blot - Anti-SV2C antibody (ab33892)

Anti-SV2C antibody (ab33892) at 1 µg/ml + Olfactory Bulb (Rat) Tissue Lysate at 20 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) at 1/50000 dilution

Developed using the ECL technique.

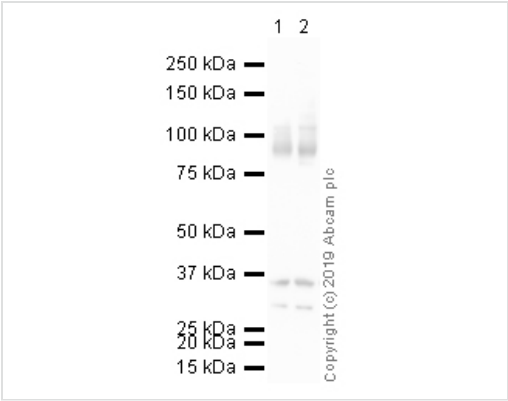
Performed under reducing conditions.

Predicted band size: 82 kDa

Observed band size: 82 kDa
Additional bands at: 30 kDa (possible non-specific binding), 36 kDa (possible non-specific binding)

Exposure time: 4 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab33892 overnight at 4°C. Antibody binding was detected using an **anti-rabbit HRP** secondary antibody, and visualised using ECL development solution **ab133406**.



Western blot - Anti-SV2C antibody (ab33892)

All lanes : Anti-SV2C antibody (ab33892) at 1 µg/ml

Lane 1 : Substantia Nigra (Mouse) Tissue Lysate
Lane 2 : Olfactory Bulb (Mouse) Tissue Lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/50000 dilution

Developed using the ECL technique.

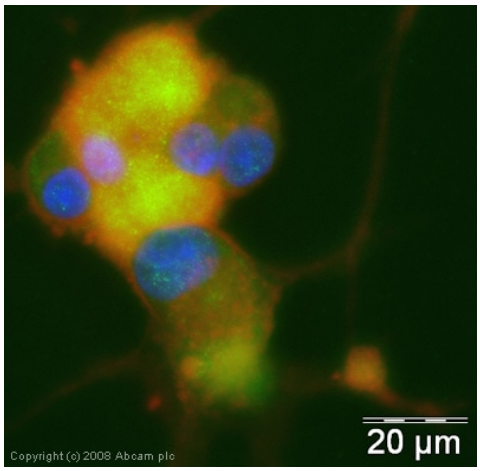
Performed under reducing conditions.

Predicted band size: 82 kDa
Observed band size: 82 kDa
Additional bands at: 30 kDa (possible non-specific binding), 36 kDa (possible non-specific binding)

Exposure time: 1 minute

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine

Serum Albumin before being incubated with ab33892 overnight at 4°C. Antibody binding was detected using an **anti-rabbit HRP** secondary antibody, and visualised using ECL development solution **ab133406**.



Immunocytochemistry/ Immunofluorescence - Anti-SV2C antibody (ab33892)

ICC/IF image of ab33892 stained PC12 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab33892, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue).

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