

# Alexa Fluor® 488 Anti-SV2A antibody [EPR23500-32]

Recombinant

RabMAb

## Key facts

|                        |                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------|
| Isotype                | IgG                                                                                                                |
| Host species           | Rabbit                                                                                                             |
| Conjugation            | Alexa Fluor® 488                                                                                                   |
| Excitation/Emission    | Ex: 495nm, Em: 519nm                                                                                               |
| Storage buffer         | pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA             |
| Form                   | Liquid                                                                                                             |
| Clonality              | Monoclonal                                                                                                         |
| Immunogen              | The exact immunogen used to generate this antibody is proprietary information.                                     |
| Clone number           | EPR23500-32                                                                                                        |
| Purification technique | Affinity purification Protein A                                                                                    |
| Concentration          | 0.5 mg/mL The concentration of this product may be batch-dependent<br><a href="#">Batch concentration finder</a> → |

## Reactivity data

### ICC/IF

#### Tested

|         |       |
|---------|-------|
| Species | Mouse |
|---------|-------|

|               |         |
|---------------|---------|
| Dilution info | 5 µg/mL |
|---------------|---------|

|       |   |
|-------|---|
| Notes | - |
|-------|---|

## Expected

|         |       |
|---------|-------|
| Species | Human |
|---------|-------|

|               |                                          |
|---------------|------------------------------------------|
| Dilution info | Use at an assay dependent concentration. |
|---------------|------------------------------------------|

|       |   |
|-------|---|
| Notes | - |
|-------|---|

## Predicted

|         |     |
|---------|-----|
| Species | Rat |
|---------|-----|

|               |   |
|---------------|---|
| Dilution info | - |
|---------------|---|

|       |   |
|-------|---|
| Notes | - |
|-------|---|

## IHC-Fr

### Tested

|         |       |
|---------|-------|
| Species | Mouse |
|---------|-------|

|               |      |
|---------------|------|
| Dilution info | 1/50 |
|---------------|------|

|       |   |
|-------|---|
| Notes | - |
|-------|---|

### Predicted

|         |            |
|---------|------------|
| Species | Human, Rat |
|---------|------------|

|               |   |
|---------------|---|
| Dilution info | - |
|---------------|---|

|       |   |
|-------|---|
| Notes | - |
|-------|---|

## Flow Cyt (Intra)

### Expected

|         |                   |
|---------|-------------------|
| Species | Human, Mouse, Rat |
|---------|-------------------|

|               |                                          |
|---------------|------------------------------------------|
| Dilution info | Use at an assay dependent concentration. |
|---------------|------------------------------------------|

|       |   |
|-------|---|
| Notes | - |
|-------|---|

# IHC-P

## Expected

|               |                                          |
|---------------|------------------------------------------|
| Species       | Human, Mouse, Rat                        |
| Dilution info | Use at an assay dependent concentration. |
| Notes         | -                                        |

## Target data

[See full target information SV2A](#) 

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 (By similarity). (Microbial infection) Receptor for the C.botulinum neurotoxin type A2 (BoNT/A, botA); glycosylation is not essential but enhances the interaction (PubMed:29649119). Probably also serves as a receptor for the closely related C.botulinum neurotoxin type A1. |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Storage

|                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| Shipped at conditions                     | Blue Ice                                     |
| Appropriate short-term storage duration   | 1-2 weeks                                    |
| Appropriate short-term storage conditions | +4°C                                         |
| Appropriate long-term storage conditions  | -20°C                                        |
| Aliquoting information                    | Upon delivery aliquot                        |
| Storage information                       | Avoid freeze / thaw cycle, Store in the dark |

## Notes

### Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

### What are the advantages of a recombinant monoclonal antibody?

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

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## Product promise

### Tested

We have tested this species and application combination and it works. It is covered by our product promise.

### Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

### Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

### Not recommended

We do not recommend this combination. It is not covered by our product promise.

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We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

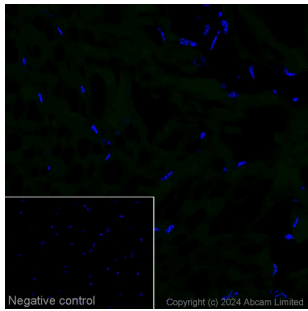
In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:  
[Terms & Conditions](#).

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## 3 product images

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## Immunohistochemistry (Frozen sections) - Alexa Fluor® 488 Anti-SV2A antibody [EPR23500-32] (ab317770)

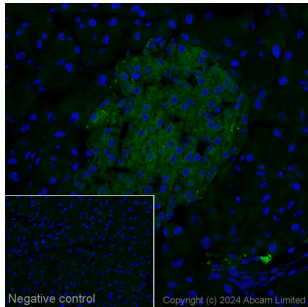
SV2A Immunohistochemistry (Frozen sections) staining of mouse skeletal muscle using rabbit Anti-SV2A antibody

Negative immunofluorescence staining of SV2A in a section of frozen mouse skeletal muscle.

The section was fixed using 10% formaldehyde in 1X PBS for 10 minutes. No antigen retrieval step was performed prior to staining. Performed on a Leica BOND™. The section was incubated at room temperature for 1 hour with ab317770 at 1/50 dilution. Nuclear DNA was labelled with DAPI (shown in blue). The section was then mounted using Dako Fluorescence Mounting Medium®.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

For other IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antigen retrieval conditions, antibody concentrations and incubation times.



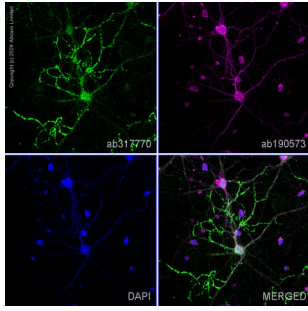
## Immunohistochemistry (Frozen sections) - Alexa Fluor® 488 Anti-SV2A antibody [EPR23500-32] (ab317770)

Immunofluorescence staining of SV2A in a section of frozen mouse pancreas.

The section was fixed using 10% formaldehyde in 1X PBS for 10 minutes. No antigen retrieval step was performed prior to staining. Performed on a Leica BOND™. The section was incubated at room temperature for 1 hour with ab317770 at 1/50 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue). The section was then mounted using Dako Fluorescence Mounting Medium®.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

For other IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antigen retrieval conditions, antibody concentrations and incubation times.



## Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 488 Anti-SV2A antibody [EPR23500-32] (ab317770)

SV2A Immunocytochemistry/ Immunofluorescence staining of primary mouse neurons/glia, DIV14 cells using rabbit Anti-SV2A antibody

ab317770 staining SV2A in primary mouse neurons/glia, DIV14 cells (prepared from E18 mouse hippocampal brain area, obtained from Transnetyx Tissue by BrainBits, LLC, cat.no. C57EHP). The cells were fixed with 100% methanol (5 min), permeabilised with 0.1% Triton x-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab317770 at 5 ug/ml (shown in green). [ab190573](#), Rabbit monoclonal to alpha Tubulin (Alexa Fluor® 647) (shown in magenta) was used at 2 ug/ml for structural counterstaining.

Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.

This product also work with 4% formaldehyde (10 min) fixation under the same testing conditions.

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.