




Product datasheet

Anti-Substance P antibody [SP-DE4-21] ab14184

★★★★★ [15 Abreviews](#) [39 References](#) [4 Images](#)

Overview

Product name	Anti-Substance P antibody [SP-DE4-21]
Description	Mouse monoclonal [SP-DE4-21] to Substance P
Host species	Mouse
Specificity	The antibody reacts specifically with human Substance P. No crossreactivity with related tachykinins (human Neurokinin A, Neurokinin B, and Kassinin).
Tested applications	Suitable for: ELISA, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Guinea pig, Human Predicted to work with: Horse, Chicken, Hamster, Cow, Shark, Common marmoset 
Immunogen	Synthetic peptide corresponding to Human Substance P aa 58-68. Sequence: RPKPQQFFGLM Database link: P20366 <div>  Run BLAST with  Run BLAST with </div>
Positive control	Guinea pig bone marrow. The antibody binds to the substantia gelatinosa.
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.40 Constituents: PBS, 0.75% Glycine
Purity	Protein G purified

Clonality	Monoclonal
Clone number	SP-DE4-21
Isotype	IgG1

Applications

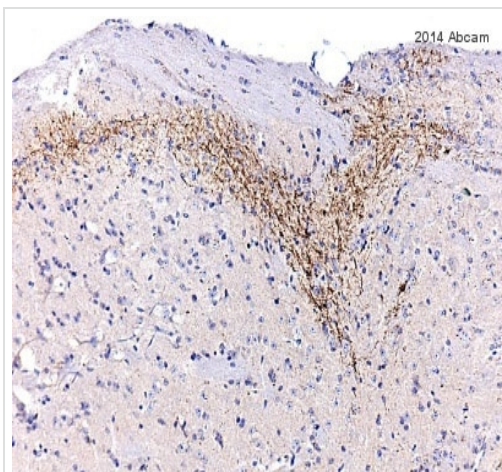
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab14184 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA	★★★★★ (1)	Use at an assay dependent concentration.
IHC-P	★★★★★ (12)	1/1000 - 1/2000.
ICC/IF	★★★★★ (2)	Use at an assay dependent concentration.

Target

Function	Tachykinins are active peptides which excite neurons, evoke behavioral responses, are potent vasodilators and secretagogues, and contract (directly or indirectly) many smooth muscles.
Sequence similarities	Belongs to the tachykinin family.
Cellular localization	Secreted.

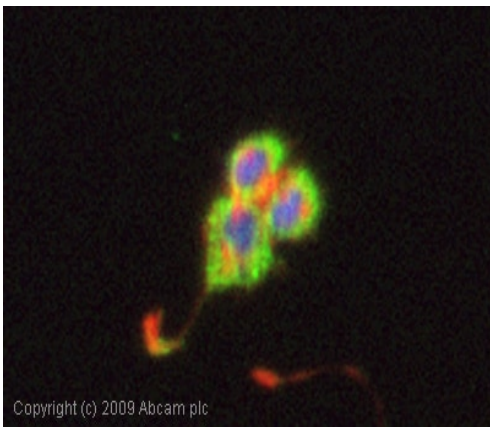
Images



ab14184 staining Substance P in mouse spinal cord tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% BSA for 10 minutes at 21°C; antigen retrieval was by heat mediation in citric acid. Samples were incubated with primary antibody (1/500 in TBS/BSA/azide) for 2 hours at 21°C. A biotin-conjugated goat anti-mouse IgG polyclonal (1/200) was used as the secondary antibody.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Substance P antibody [SP-DE4-21] (ab14184)

This image is courtesy of an Abreview submitted by Carl Hobbs



Immunocytochemistry/ Immunofluorescence - Anti-Substance P antibody [SP-DE4-21] (ab14184)

ICC/IF image of ab14184 stained PC12 cells. The cells were 100% methanol fixed (5 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 (ab14184, 1ug/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse 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) at a concentration of 1.43uM.

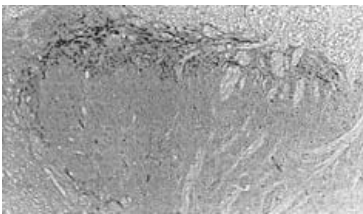


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Substance P antibody [SP-DE4-21] (ab14184)

Image courtesy of an anonymous Abreview.

ab14184 staining Substance P in human pancreas tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections).

Tissue was fixed in formaldehyde and an enzymatic antigen retrieval step was performed. Samples were then incubated with ab14184 at a 1/100 dilution for 1 hour. The secondary used was an undiluted HRP conjugated goat anti-mouse polyclonal.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Substance P antibody [SP-DE4-21] (ab14184)

Substance P staining at 1:1000 of the substantia gelatinosa (dorsal horn) of the guinea pig spinal cord using an HRP-conjugated secondary antibody and DAB.

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