



Antibody to Substance P RABBIT POLYCLONAL

Catalog Number: AB-N10
Quantity: 100 microliters
Format: Liquid antisera, no preservative
Host: Rabbit
Immunogen: Substance P conjugated to BSA

Background: Substance P (SP) is an undecapeptide belonging to the tachykinin peptide family. It is widely distributed throughout the central and peripheral nervous systems and has been implicated as having a role in the transmission of pain.

Specificity & Preparation: This antibody recognizes Substance P (SP). It was developed in rabbits using Substance P conjugated to BSA as the immunogen. The antibody is routinely tested by ELISA and western blot.

Usage: Applications include ELISA (ATS in-house; 1:1,000) and immunoblotting (ATS in-house; 1:1,000).

Storage: Store the antibody at 4°C for one month or -20°C in undiluted aliquots for up to one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

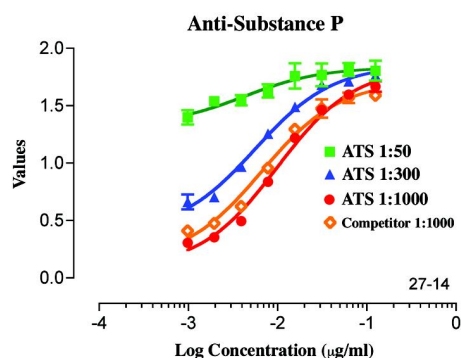


Selected References:

1. Gómez-Pinilla PJ, Pozo MJ, Camello PJ (2007) Aging impairs neurogenic contraction in guinea pig urinary bladder: role of oxidative stress and melatonin. *Am J Physiol Regul Integr Comp Physiol* 293(2):R793-803.

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A standard sandwich ELISA was performed. A NUNC immunoplate 96-well Maxi-Sorp plate was coated with goat anti-saporin (Cat. #AB-15) in carbonate buffer and incubated overnight. Plate was washed and unbound sites blocked. A dilution curve of SP-SAP standard was added and incubated at 37°C for one hour. Plate was washed and anti-substance P (lot #27-14) was added at dilutions of 1:50, 1:300, and 1:1,000. After incubation at 37°C for one hour, plate was washed and goat anti-rabbit HRP was added. After incubation at 37°C for one hour, plate was washed 5 times and developed with TMB/E. Reaction was stopped with 1M H₂SO₄ and absorbance at 450 nM was read using SoftMax Pro.