NEUROMICS

Substance P Datasheet

Catalog Number:	GP14103	**Host:**	Guinea Pig
Product Type:	Whole Serum	**Species Reactivity:**	Rat, Mouse, human
Immunogen Sequence:	CRPKPQQFFGLM Corresponding to residues 1-11 of rat Substance P	**Format:**	Whole Serum (with 0.05% sodium azide) Sent in liquid form
Applications:	Immunohistochemistry 1:50 – 1:200 Dilutions listed only as a recommendation. Optimal dilution should be determined by investigator.		

Storage: Store frozen. Aliquot as undiluted serum and immediately place at -20ºC. Serum may have become trapped in top of vial during shipping. Centrifugation of vial is recommended before opening. Stable for at least 6 months at -20ºC. Repeated freeze/thaw cycles compromise the integrity of the antiserum.

References:

Ljungdahl, T., Hokfelt, G. Nilsson, G. and Goldstein, M. *Distribution of Substance P- Like Immunoreactivity in the Central Nervous System of the Rat-II. Light Microscopic Localization in Relation to Catecholamine-Containing Neurons.* Neuroscience (1978), Vol. 3, 945-976.

Application Notes

Immunohistochemistry: Antiserum was used on perfusion fixed tissue. Perfusion: 1) calcium-free Tyrode's solution, 2) paraformaldehyde-picric acid fixative, and 3) 10% sucrose in PBS as a cryo-protectant. Desired tissues were dissected and stored overnight in 10% sucrose in PBS.

Slide-mounted tissue sections were processed for indirect immunofluorescence. Slides were incubated with blocking buffer for 1 hour at room temperature. Primary antiserum was diluted with blocking buffer to the appropriate working concentration. Blocking buffer was removed and slides were incubated for 18-24 hours at 4ºC with primary antiserum. Slides were rinsed 3 times and then incubated with secondary antibodies for 1 hour at room temperature. Slides were again rinsed 3 times and coverslipped. Staining was examined using fluorescence microscopy.

Note: Sodium azide (NaN_3) interferes with peroxidase reactions and should not be used with peroxidase methodologies. If sodium azide is present in any steps of the staining procedure, the tissue should thoroughly be rinsed with sodium azidefree buffer before performing the peroxidase reaction.

www.neuromics.com

Neuromics Antibodies • 5325 West 74th Street, Suite 8 • Edina, MN 55439 • phone 866-350-1500 • fax 612677-3976 •
e-mail pshuster@neuromics.com