

**Product:** Anti- Rat Substance P  
**Catalog #:** 03-16098  
**Amount:** 100 ml

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**CATEGORY:** Rabbit Polyclonal  
**FORM:** Serum containing 0.1% sodium azide  
**IMMUNOGEN:** Substance P conjugated to BSA  
**DESCRIPTION/SPECIFICITY:** Substance P occurs in nerve fibers of the central and peripheral nervous system and in endocrine cells of the gut. It stimulates smooth muscle contraction, gives rise to vasodilation and is involved in sensory functions. Substance P-containing tumors arising in the ileum are often associated with the carcinoid syndrome, characterized by flushing of the skin, diarrhea, broncho-constriction and sudden drops in blood pressure. Substance P is commonly found in the midgut carcinoids and some of the symptoms may be related to this peptide. Absorption with 10-100 µg SP and NKA per ml diluted antiserum abolishes the staining while Neurokinin A does not.

**ANTIGEN RECOGNIZED IN**

**SPECIES** (tested so far): Rat

**RECOMMENDED FOR**

**POSITIVE CONTROL:** Frozen sections of rat colon

**APPLICATION:** Immunohistochemistry, suitable for frozen and paraffin sections  
Immunofluorescence

**WORKING DILUTION:** 1:20 to 1:40 for immunofluorescence microscopy, with overnight incubation at 2-8°C

**DILUTION BUFFER:** 0.1 M PBS with 1% BSA and 0.1% Na-Azide

**STORAGE:** 2-8°C for immediate use, or at -20°C (aliquot)

**REFERENCES:**

Hardebo, JE et al. (1989) Neuroscience letters **101**: 39-45

Hauser, JE, et al. (1994) J. Andrology **15** (6): 510-520

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