



BMA BIOMEDICALS



Peninsula Laboratories

T-4105

Rabbit Anti Substance P

Substance P is an undecapeptide resulting from the cleavage of Protachykinin-1 (Uniprot P20366) into several biologically active peptides. It is mainly secreted by neurons and is involved in biological processes like nociception and inflammation. Substance P mediates interactions between neurons and immune cells, with nerve-derived substance P modulating immune cell proliferation and cytokine production.

This antibody was generated by immunization of rabbits with Substance P coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

- Lot number:** A18PO2117
- Host species:** Rabbit IgG
- Quantity:** 50ml
- Format:** This polyclonal antibody is supplied as a lyophilized powder. The powder should be rehydrated with 50ml of RIA buffer. Upon reconstitution to 50ml total volume, the solution contains 0.1M sodium phosphate buffer (pH 7.4), 0.05M NaCl, 0.1% BSA, 0.01% NaN₃, and 0.1% Triton X-100. Store at 4° - 8°C. This should ensure antibody stability for approximately one month.
- Stability:** Original vial: at least one year at 4° - 8°C from date of delivery. Minimize repeated thawing and freezing of the antiserum by freezing aliquots at -20°C or below.
- Applications:** This antibody has been tested and validated in ELISA against Substance P and in immunohistochemistry (IHC). Other applications like FACS or Western Blot may work as well. Optimal dilutions should be determined by the end user.
Please see www.bma.ch for protocols and general information.
- Immunogen:** Synthetic peptide H-Arg-Pro-Lys-Pro-Gln-Gln-Phe-Phe-Gly-Leu-Met-NH₂ coupled to carrier protein.

Cross-Reactivity:

PEPTIDE:	%:
Substance P	100
Substance P (2-11)	100
Substance P (3-11)	100
Substance P (4-11)	100

Cross-Reactivity (continued):

PEPTIDE:	%:
Substance P (5-11)	100
Substance P (6-11)	<5
Substance P (7-11)	<0.01
Neuropeptide K (porcine)	<0.01
Neurokinin A	<0.01
Neurokinin B	0
Somatostatin-14	0
Endothelin-1 (human, porcine, Canine, rat)	<0.5
Physalaemin	0

Related Products: S-1165: ELISA, extraction-free for rat samples
S-1153: ELISA extraction-free for human samples
S-1180: ELISA, high sensitivity for extracted samples
T-4106: purified rabbit IgG
T-4107 neat rabbit antiserum
T-5018 diluted guinea pig antiserum
T-5019 neat guinea pig antiserum

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

T-4105

diluted antiserum

1.2.2021