BMA BIOMEDICALS

Peninsula Laboratories

Rabbit anti Substance P

Substance P is an undecapeptide resulting from the cleavage of Protachykinin-1 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

Catalog Number: T-4105 (Lot A18PO2117)

Clonality: Polyclonal

Host species: Rabbit

Reactivity: Human

Quantity: 1.0 ml

Format: Diluted antiserum, lyophilized. This stock solution contains phosphate-buffered saline (pH 7.2), 1 % BSA as stabilizer, and 0.01 % ProClin™150 as preservative.

Reconstitute by adding 1.0 ml of distilled water.

Stability and Storage: Original vial: 1 year at 4° - 8°C from date of purchase.
Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.

Immunogen: Synthetic peptide H-Arg-Pro-Lys-Pro-Gln-Gln-Phe-Phe-Gly-Leu-Met-NH_2 coupled to carrier protein.

Protein database: human-P25103, mouse-P30548, rat- P14600, bovine-F1MIX5

Cross-Reactivity:

PEPTIDE	%
Substance P	100
Substance P (2-11)	100
Substance P (3-11)	100
Substance P (4-11)	100
Substance P (5-11)	100
Substance P (6-11)	<5

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Cross-Reactivity:

PEPTIDE	%
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

Applications:

Tested in immunohistochemistry (IHC) and ELISA against Substance P. Other applications like FACS or Western Blot may work as well.
Optimal dilutions should be determined by the end user.

Please see **bma.ch** for protocols and general information.

Approximate working dilution for IHC:
Frozen sections: not tested yet.
Paraffin sections: 1:500; recommended Proteinase K pre-treatment.

Related Products:

S-1153: ELISA extraction-free for human samples
S-1165: ELISA extraction-free for rat samples
S-1180: ELISA high sensitivity for extracted samples
T-4106: Rabbit anti Substance P, purified antiserum
T-4107: Rabbit anti Substance P, neat antiserum
T-5018: Guinea pig anti Substance P, diluted antiserum
T-5019: Guinea pig anti Substance P, neat antiserum

This product contains ProClin™150 as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.

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