



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-4106 (Lot A18PO26015)
Clonality:	Polyclonal
Host species:	Rabbit IgG
Reactivity:	Human, mouse, rat, bovine
Quantity:	400µg
Format:	Protein A affinity purified from antiserum, lyophilized. This stock solution contains 2mg/ml IgG, phosphate buffered saline pH 7.4 (PBS), and 0.05% (w/v) ProClin™ 150 as a preservative. Reconstitute by adding 0.2ml 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:	<u>human-P25103</u> , <u>mouse-P30548</u> , <u>rat-P14600</u> , <u>bovine-F1MIX5</u>
Cross-Reactivity:	

PEPTIDE	%
Substance P	100
Substance P (2-11)	100
Substance P (3-11)	74.5
Substance P (4-11)	12.4
Substance P (5-11)	12.4
Substance P (6-11)	4.8
Substance P (7-11)	0

Cross-Reactivity:

PEPTIDE	%
Substance P (8-11)	0
Substance P (9-11)	0
Neurokinin A	<0.01
Neurokinin B	0
Endothelin-1(human, bovine, porcine, mouse, dog, rat)	0

Applications:

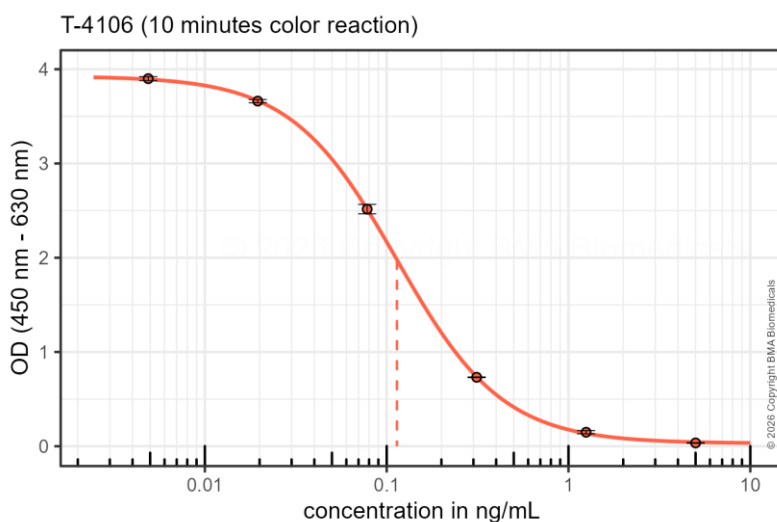
Tested in ELISA against Substance P and in immunohistochemistry (IHC). Other applications like FACS and Western blot may work as well.

Approximate working dilution for IHC:

Paraffin sections: (1:200); pretreatment with Proteinase K for antigen retrieval is recommended.

Optimal dilutions should be determined by the end user.

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



Related Products:

- S-1165: ELISA extraction-free for rat samples
- S-1180: ELISA high sensitivity for extracted samples
- T-4105: Rabbit anti Substance P, diluted antiserum
- 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.