NEUROMICS

Neurokinin 1 (NK-1) Receptor Data Sheet

Catalog Number:	RA25003	**Host:**	Rabbit
Product Type:	Affinity Purified Antibody	**Species Reactivity:**	Human, Rat
Immunogen Sequence:	A peptide derived from the human NK-1 amino acids with a cysteine added for conjugation to KLH.	**Format:**	Liquid. PBS with .05% Sodium Azide. Concentration of 1 mg/ml.

Applications: RA25003 NK-1 can be used in immunohistochemical analysis on frozen and fixed tissue sections.
Suggested working dilutions: *
Immunohistochemistry (Frozen Sections) 1:500-1:1,000
Flow Cytometry-1:3,000
Western blot 1:1,000

*Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

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

Application Notes

Description/Data:
The tachykinins belong to an evolutionary conserved family of peptide neurotransmitters that share the c-terminal sequence Phe-X-Gly-Leu-Met-NH2 and have an established role in neurotransmission. The mammalian tachykinins include substance P, neurokinin A (NKA) and neurokinin B (NKB) which exert their effects by binding to specific receptors. Tachykinin peptides are important in the mediation of many physiological and pathological processes including inflammation, pain, migraine headache and allergy induced asthma. Three tachykinin receptor types have been characterized, NK-1, NK-2 and NK-3 which have preferential affinities for SP, NKA and NKB respectively. All three receptors share a high degree of sequence homology, have seven transmembrane spanning domains and similar signal transduction mechanisms (e.g. G-protein coupled activation of phospholipase C).

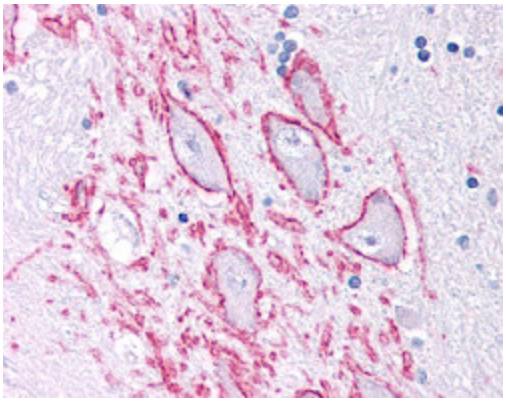

Image: Neurokinin 1 Receptor staining of brain, basal nucleus of Meynert, neurons.

FOR RESEARCH USE ONLY

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