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Substance P Rabbit pAb

Catalog # AP99015

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P20366
Other Accession	P20366
Reactivity	Rat, Human, Mouse
Predicted	Pig, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	15003
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Substance P (RPKPQQFFGLM)
Epitope Specificity	58-68/129
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the tachykinin family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes four products of the tachykinin peptide hormone family, substance P and neurokinin A, as well as the related peptides, neuropeptide K and neuropeptide gamma. These hormones are thought to function as neurotransmitters which interact with nerve receptors and smooth muscle cells. They are known to induce behavioral responses and function as vasodilators and secretagogues. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] This anitbody is crose activity with Neurokinin B.

Additional Information

Gene ID	6863
Other Names	Hs.2563; NK2; NKNA; NPK; TAC2; 4930528L02Rik; NK-1; NK1; PPT-A; PPTA; SP; PPTA3; Ppt5fl; RATPPTA3; TAC; TKN1_HUMAN; TAC1; PPT; NKA; TKN1_MOUSE; TKN1_RAT; tachykinin precursor 1; tachykinin, precursor 1 (substance K, substance P, neurokinin 1, neurokinin 2, neuromedin L, neurokinin alpha, neuropeptide K, neuropeptide gamma); substance K; substance P; neurokinin 1; neurokinin 2; neuromedin L; neurokinin alpha; neuropeptide K; neuropeptide gamma; preprotachykinin; protachykinin
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,Flow-Cyt=1 □g/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	TAC1
Synonyms	NKA, NKNA, TAC2
Function	Tachykinins are active peptides which excite neurons, evoke behavioral responses, are potent vasodilators and secretagogues, and contract (directly or indirectly) many smooth muscles. [Neurokinin A]: Is a ligand for TACR2, and triggers G protein-coupled receptor signaling via activation of G(q) and phosphatidylinositol hydrolysis by phospholipase C (PubMed:35882833). Binding to TACR2 also triggers signaling via activation of adenylate cyclase activity which results in increased intracellular levels of cyclic AMP (cAMP).
Cellular Location	Secreted.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.