



# Anti-Substance P polyclonal antibody (DPAB2409GH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Polyclonal Antibody to Substance P
<b>Antigen Description</b>	Substance P occurs in nerve fibers of the central and peripheral nervous system and in endocrine cells of the gut. It stimulates smooth muscle contraction, gives rise to vasodilation and is involved in sensory functions. Substance P-containing tumors arising in the ileum are often associated with the carcinoid syndrome, characterized by flushing of the skin, diarrhea, bronchoconstriction and sudden drops in blood pressure. Substance P is commonly found in the midgut carcinoids and some of the symptoms may be related to this peptide.
<b>Specificity</b>	Absorption with 10 – 100 µg SP and NKA per ml diluted antiserum abolishes the staining while GRP and NKB do not
<b>Immunogen</b>	Substance P, conjugated to BSA
<b>Source/Host</b>	Guinea pig
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IF, paraffin and frozen sections
<b>Positive Control</b>	Frozen sections of rat colon
<b>Format</b>	Guinea pig serum
<b>Size</b>	50 µl
<b>Buffer</b>	Dissolve the antiserum in 50 – 100 µl distilled water, and dilute further in 0.1 M PBS with 1% BSA and 0.1% NaN <sub>3</sub> .

<b>Preservative</b>	0.1% Sodium Azide
<b>Storage</b>	At 2-8°C (undiluted) or at -20°C (aliquots)

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">TAC1 tachykinin, precursor 1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	TAC1
<b>Synonyms</b>	TAC1; tachykinin, precursor 1; NK2; NPK; NKNA; TAC2; Hs.2563; NKNA; TAC2.; tachykinin, precursor 1 (substance K, substance P, neurokinin 1, neurokinin 2, neuromedin L, neurokinin alpha, neuropeptide K, neuropeptide gamma); neurokinin 1; neurokinin 2; neurokinin alpha; neuromedin L; neuropeptide gamma; neuropeptide K; NPK; substance K; substance P; Protachykinin-1; PPT; Substance P; Neurokinin A; NKA; Neuromedin L; Substance K; Neuropeptide K; Neuropeptide gamma; C-terminal-flanking peptide; protachykinin-1; neurokinin A; tachykinin 2
<b>Entrez Gene ID</b>	<a href="#">6863</a>
<b>Protein Refseq</b>	<a href="#">NP_003173</a>
<b>UniProt ID</b>	<a href="#">P20366</a>
<b>Chromosome Location</b>	7q21-q22
<b>Pathway</b>	Class A/1 (Rhodopsin-like receptors); G alpha (q) signalling events; GPCR downstream signaling; GPCR ligand binding; Peptide ligand-binding receptors; Signal Transduction; Signaling by GPCR; Tachykinin receptors bind tachykinins; Gene Ontology.
<b>Function</b>	substance P receptor binding