




## Rabbit Anti-Substance P antibody

SL0065R

<b>Product Name:</b>	Substance P
<b>Chinese Name:</b>	P物质抗体
<b>Alias:</b>	Hs.2563; Neurokinin 1; Neurokinin 2; Neurokinin A; Neurokinin alpha; Neuromedin L; Neuropeptide gamma; NKA; NKNA; PPT; Protachykinin 1 precursor; Substance K; Substance P; TAC1; TAC2; Tachykinin 1; Tachykinin 2; Tachykinin precursor 1; Tachykinin1; TACI; TKN1 HUMAN.
<b>文献引用</b>  :	<b>Specific References(5)</b>  SL0065R has been referenced in 5 publications. <b>[IF=2.94]</b> Tu, Guihua, et al. "P2X <sub>7</sub> inhibition in stellate ganglia prevents the increased sympathoexcitatory reflex via sensory-sympathetic coupling induced by myocardial ischemic injury." Brain research bulletin (2013). <b>Rat.</b> <a href="#">PubMed:23688519</a>
	<b>[IF=2.63]</b> Liu, Jun, et al. "Sensory-sympathetic coupling in superior cervical ganglia after myocardial ischemic injury facilitates sympathoexcitatory action via P2X7 receptor." Purinergic Signalling (2013): 1-17. <b>Rat.</b> <a href="#">PubMed:23754120</a>
	<b>[IF=0.78]</b> Liu, Zhi-ming, et al. "Mutual Effect between Neuropeptides and Inflammatory Cytokines in Neurogenic SMSCs of Human Temporomandibular Joint." J Huazhong Univ Sci Technol [Med Sci] 34.4 (2014): 602-607. <b>WB;Human.</b> <a href="#">PubMed:25135735</a>
	<b>[IF=4.85]</b> Daschil, Nina, et al. "L-Type calcium channel blockers and substance P induce angiogenesis of cortical vessels associated with beta-amyloid plaques in an Alzheimer mouse model." Neurobiology of Aging (2015). <b>IHC-F;Mouse.</b> <a href="#">PubMed:25619662</a>

	<p><b>[IF=1.89]</b> Yu, Xi-Jiao, et al. "Expression of substance P in rat periodontal alveolar bone after denervation." International Journal of Clinical and Experimental Pathology 9.2 (2016): 1384-1391. <b>IHC-P;Rat.</b></p> <p style="text-align: right;"><a href="#">PubMed: not posted yet</a></p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human, Mouse, Rat, Pig, Cow, Horse, Rabbit, Sheep, Guinea Pig,
<b>Applications:</b>	ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 Flow-Cyt=1µg/Test IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	1.4/13kDa
<b>Cellular localization:</b>	Secretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Substance P:58-68/129
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>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]</p> <p><b>Function:</b> Tachykinins are active peptides which excite neurons, evoke behavioral responses, are potent vasodilators and secretagogues, and contract (directly or indirectly) many smooth muscles.</p> <p><b>Subcellular Location:</b> Secreted.</p> <p><b>Similarity:</b> Belongs to the tachykinin family.</p> <p><b>SWISS:</b></p>

P20366

**Gene ID:**  
6863

**Database links:**

[Entrez Gene: 6863](#)Human

[Entrez Gene: 21333](#)Mouse

[Entrez Gene: 24806](#)Rat

[Omim: 162320](#)Human

[SwissProt: P20366](#)Human

[SwissProt: P41539](#)Mouse

[SwissProt: P06767](#)Rat

[Unigene: 2563](#)Human

UniProtKB/Swiss-Prot: P20366.1

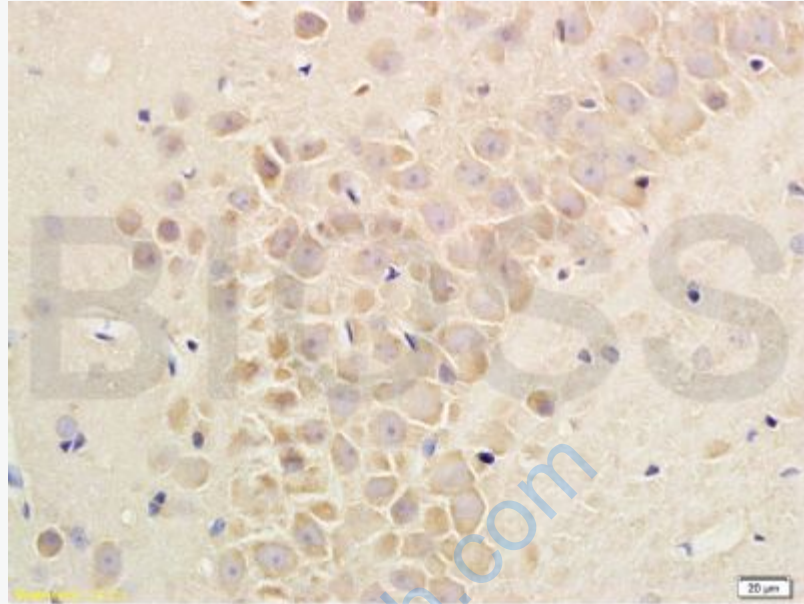
**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**P物质 (Substance**

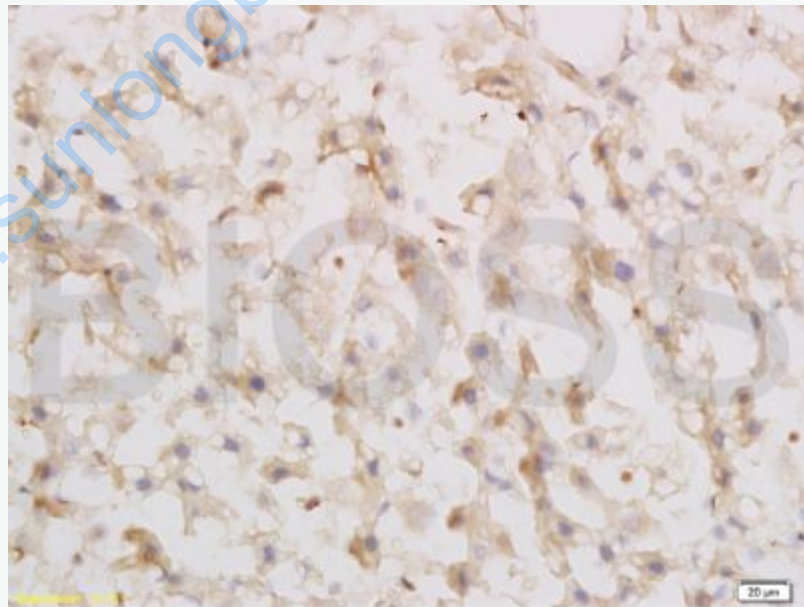
P) 是脑组织及消化道中发现的一种神经递质肽。由130个氨基酸残基组成，胃肠道中肌肉收缩的有力促进剂，亦为强血管扩张剂。

SP是一种脑肠肽，亦是最早发现的一种神经肽，属于速激肽家族成员，它广泛分布于中枢及外周神经系统，作为一种神经递质或调质参与疼痛、免疫、Cardiovascular等多种生理功能的调节。SP与其它的递质或调质类似，能作用于多种类型的受体，速激肽家族有NK1、NK2、NK3三种受体，都能与SP结合，其中NK1与SP的结合能力最强而被称为SP受体。



**bs-0065R Anti-Substance P Polyclonal Antibody**

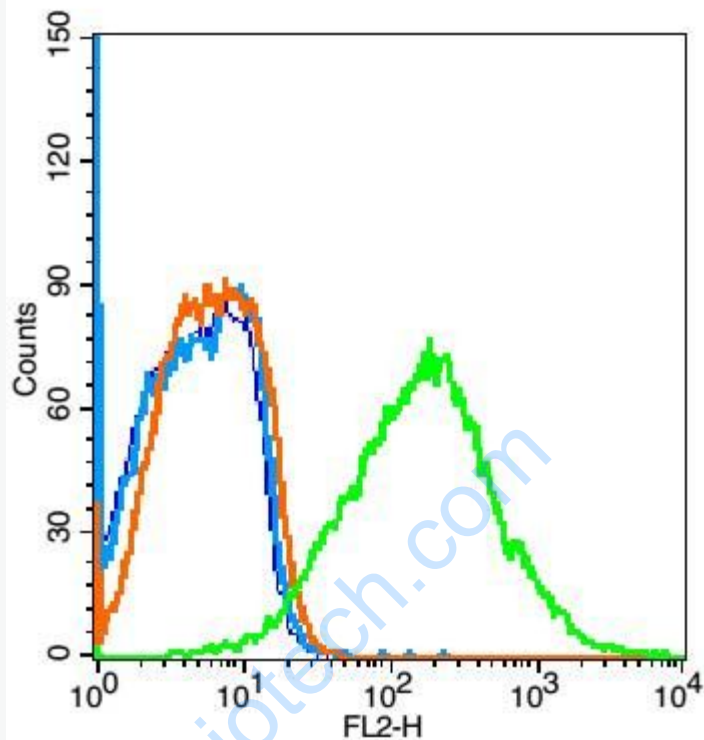
Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min  
Block endogenous peroxidase by 3% Hydrogen peroxide for 30min  
Blocking buffer (normal goat serum) at 37 °C for 20 min  
Incubation: Anti-Substance P Polyclonal Antibody, Unconjugated(bs-0065R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining



**bs-0065R Anti-Substance P Polyclonal Antibody**

Tissue/cell: rat liver tissue; 4% Paraformaldehyde-fixed and paraffin-embedded  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min  
Block endogenous peroxidase by 3% Hydrogen peroxide for 30min  
Blocking buffer (normal goat serum) at 37 °C for 20 min  
Incubation: Anti-Substance P Polyclonal Antibody, Unconjugated(bs-0065R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining

Picture:



Blank control: Mouse brain cells (blue).

Primary Antibody: Rabbit Anti- Substance P antibody(SL0065R), Dilution: 1 $\mu$ g in 100  $\mu$ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions );

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

#### Protocol

The cells were fixed with 2% paraformaldehyde (10 min). Primary antibody (SL0065R) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 30

	min on ice. Acquisition of 20,000 events was performed.
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