SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-Substance P antibody

SL0065R

Product Name	Substance P
Chinese Name	P 物质抗体
Alias	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.
Research Area	Neurobiology The new supersedes the old
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat (predicted:Pig,Cow,Horse,Rabbit,Sheep,GuineaPig)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,Flow-Cyt=1μg/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	1.4/13kDa
Cellular localization	Secretory protein
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Substance P (RPKPQQFFGLM): 58-68/129
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic

or diagnostic applications.

PubMed

PubMed

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]

Product Detail

Function:
Tachykinins are active peptides which excite neurons, evoke behavioral responses, are potent vasodilators and secretagogues, and contract (directly or indirectly) many smooth muscles.

Subcellular Location:
Secreted.

Similarity:
Belongs to the tachykinin family.

SWISS:
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

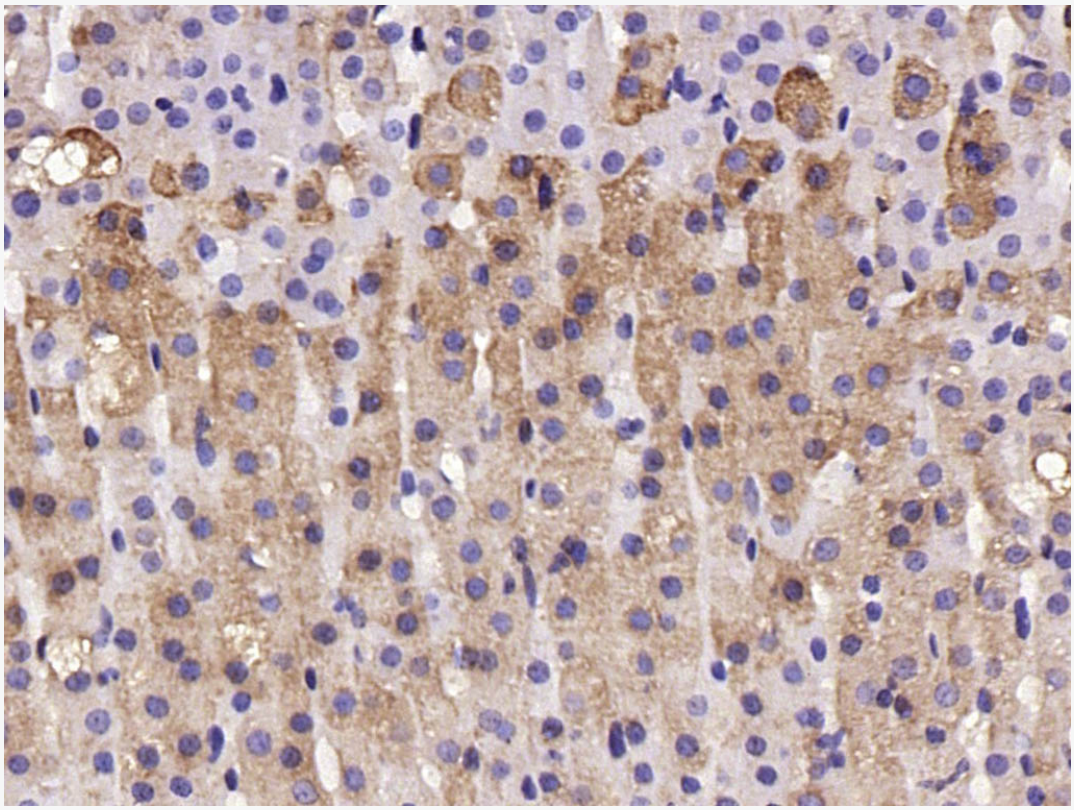
SwissProt: P06767 Rat

Unigene: 2563 Human

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。

Product Picture



Paraformaldehyde-fixed, paraffin embedded (rat adrenal gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Substance P) Polyclonal Antibody, Unconjugated (SL0065R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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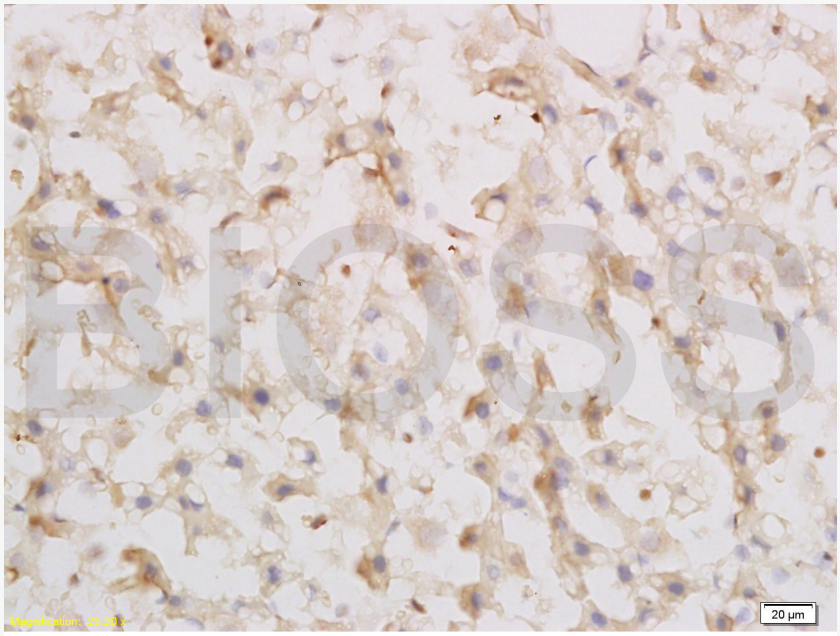

bs-0065R Anti-Substance P Polyclonal Antibody
Tissue/cell: rat liver tissue; 4% Paraformaldehyde-fixed and paraffin-embedded
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min
Block endogenous peroxidase by 3% Hydrogen peroxide for 30min
Blocking buffer (normal goat serum) at 37℃ 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

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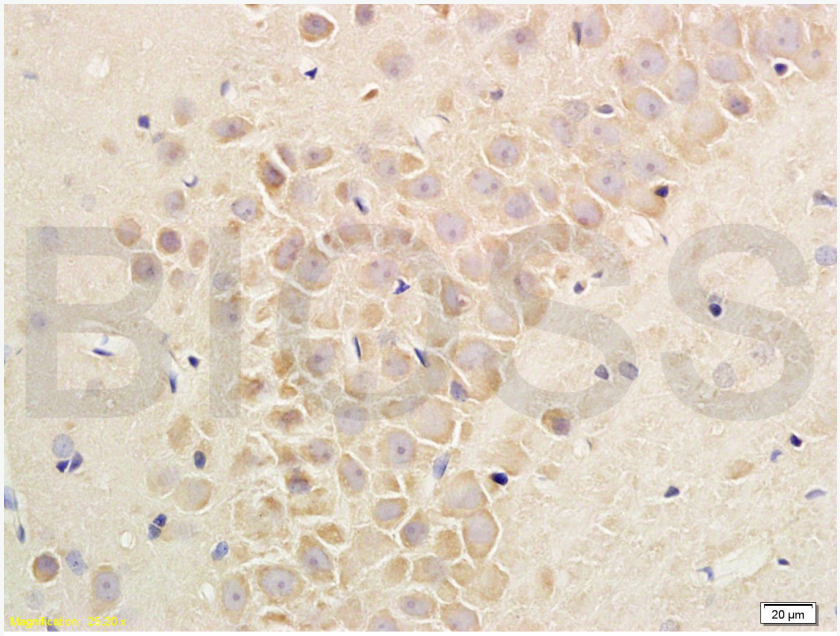

bs-0065R Anti-Substance P Polyclonal Antibody
Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min
Block endogenous peroxidase by 3% Hydrogen peroxide for 30min
Blocking buffer (normal goat serum) at 37℃ 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

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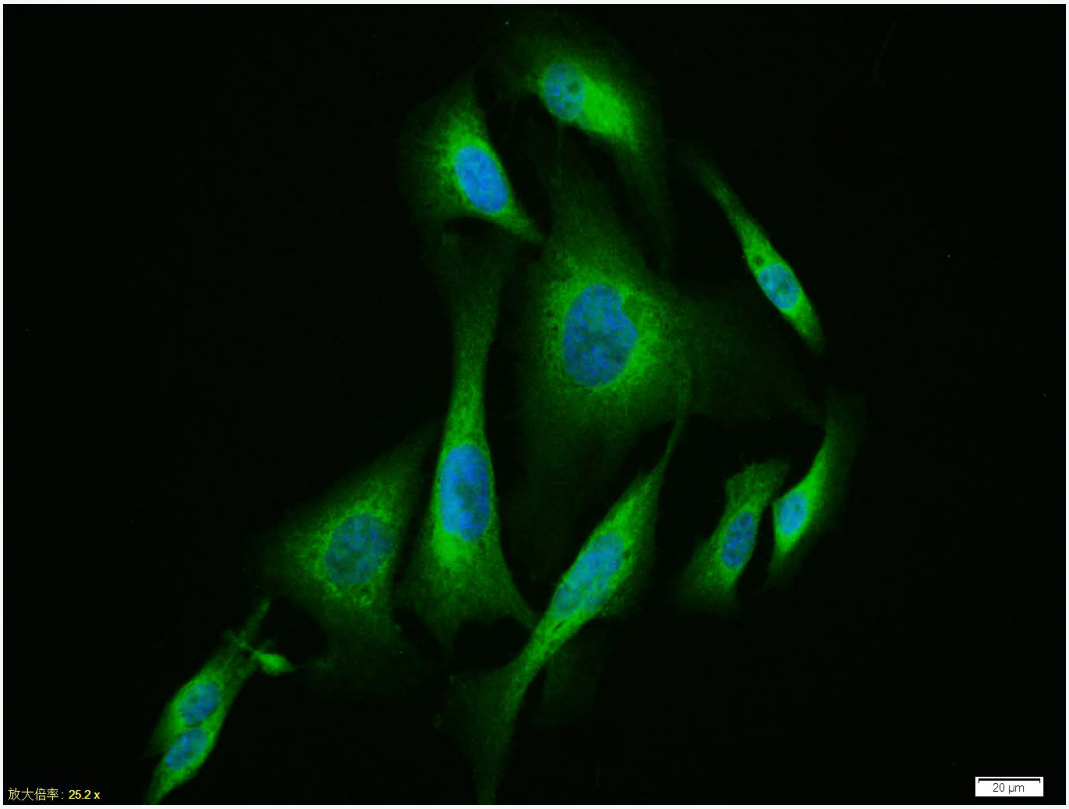

U-2OS cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Substance P) polyclonal Antibody, Unconjugated (SL0065R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

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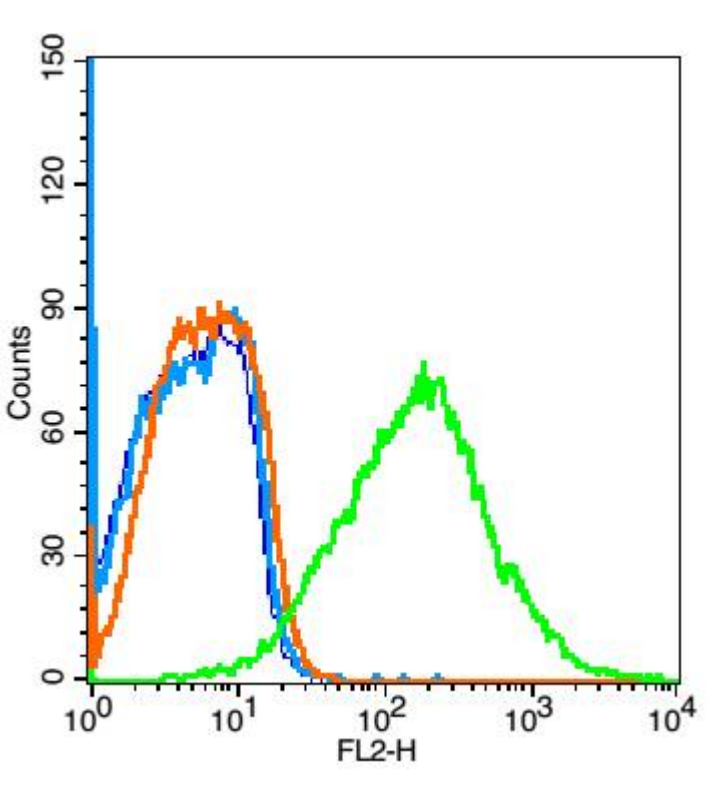

Blank control: Mouse brain cells (blue).

Primary Antibody:Rabbit Anti- Substance P antibody(SL0065R), Dilution: 1μg in 100 μL 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, 1μg /1x10^6 cells) 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.