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

Rabbit Anti-Neurokin B receptor antibody

SL0166R

Product Name	Neurokin B receptor
Chinese Name	神经激肽 B 受体抗体
Alias	MGC148060; MGC148061; Neurokinin B receptor; Neurokinin beta receptor; Neuromedin K Receptor; Neuromedin-K receptor; NK 3 receptor; NK 3R; NK-3 receptor; NK-3R; NK3 receptor; NK3R; NK3R_HUMAN; NKR; TAC 3R; TAC3R; TAC3RL; Tachykinin receptor 3; TACR 3; Tacr3.
Research Area	Cell biology Neurobiology The cell membrane 受体 G protein signal
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse, Rat, (predicted: Human, Chicken, Dog, Pig, Cow, Horse, Rabbit, Guinea Pig,)
Applications	IHC-P=1:400-800,IHC-F=1:400-800,IF=1:100-500,ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	52kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human NKR: 151-250/440 <Extracellular>
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

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).

Product Detail

Function:
This is a receptor for the tachykinin neuropeptide neuromedin-K (neurokinin B). It is associated with G proteins that activate a phosphatidylinositol-calcium second messenger system. The rank order of affinity of this receptor to tachykinins is: neuromedin-K > substance K > substance P.

Subcellular Location:
Cell membrane; Multi-pass membrane protein.

Post-translational modifications:
The anchoring of this receptor to the plasma membrane is probably mediated by the palmitoylation of a cysteine residue.

DISEASE:
Hypogonadotropic hypogonadism 11 with or without anosmia (HH11) [MIM:614840]: A disorder characterized by absent or incomplete sexual maturation by the age of 18 years, in conjunction with low levels of circulating gonadotropins and testosterone and no other abnormalities of the hypothalamic-pituitary axis. In some cases, it is associated with non-reproductive phenotypes, such as anosmia, cleft palate, and sensorineural hearing loss. Anosmia or hyposmia is related to the absence or hypoplasia of the olfactory bulbs and tracts. Hypogonadism is due to deficiency in gonadotropin-releasing hormone and probably results from a failure of embryonic migration of gonadotropin-releasing hormone-synthesizing neurons. In the presence of anosmia, idiopathic hypogonadotropic hypogonadism is referred to as Kallmann syndrome, whereas in the presence of a normal sense of smell, it has been termed normosmic idiopathic hypogonadotropic hypogonadism (nIHH). Note=The disease is caused by mutations affecting the gene represented in this entry.

Similarity:

Belongs to the G-protein coupled receptor 1 family.

SWISS:
P29371

Gene ID:
6870

Database links:

Entrez Gene: 6870 Human

Entrez Gene: 404136 Cow

Entrez Gene: 403814 Dog

Entrez Gene: 21338 Mouse

Entrez Gene: 100008721 Rabbit

Entrez Gene: 24808 Rat

Omim: 162332 Human

SwissProt: P29371 Human

SwissProt: P47937 Mouse

SwissProt: O97512 Rabbit

SwissProt: P16177 Rat

Unigene: 942 Human

Unigene: 103810 Mouse

Unigene: 9702 Rat

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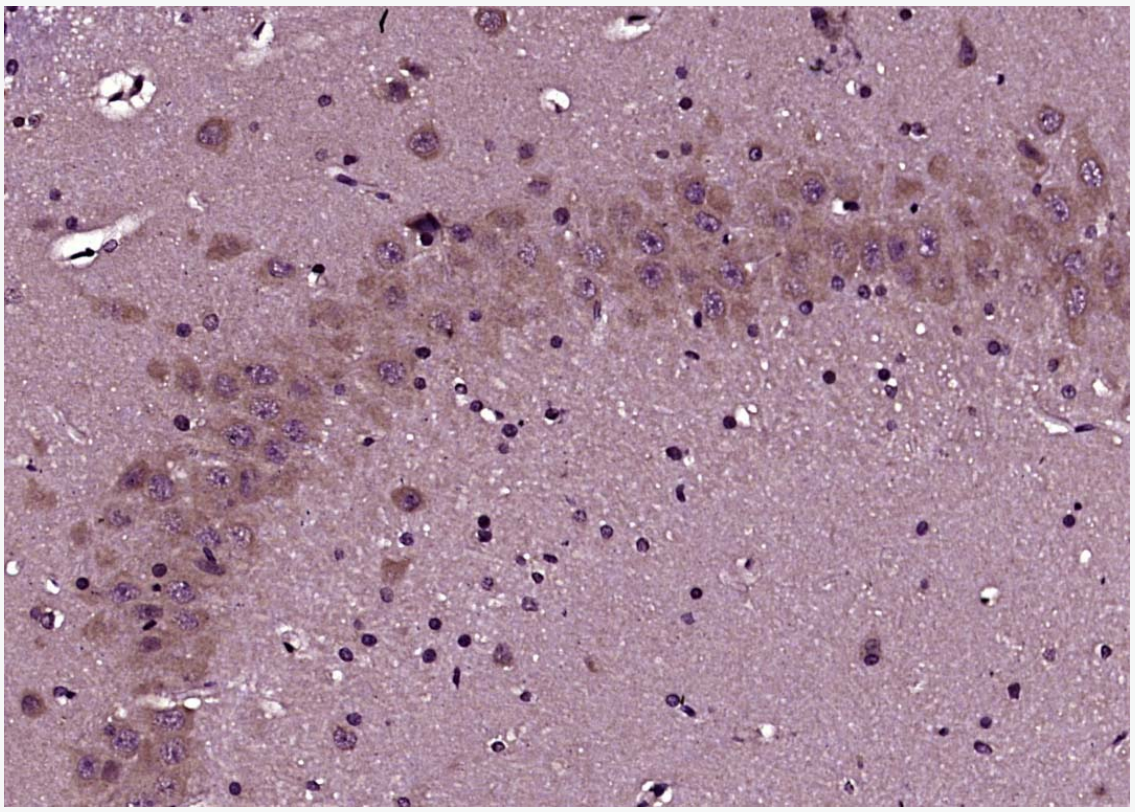
Product Picture



Paraformaldehyde-fixed, paraffin embedded (Rat brain); 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 (Neurokin B receptor) Polyclonal Antibody, Unconjugated (SL0166R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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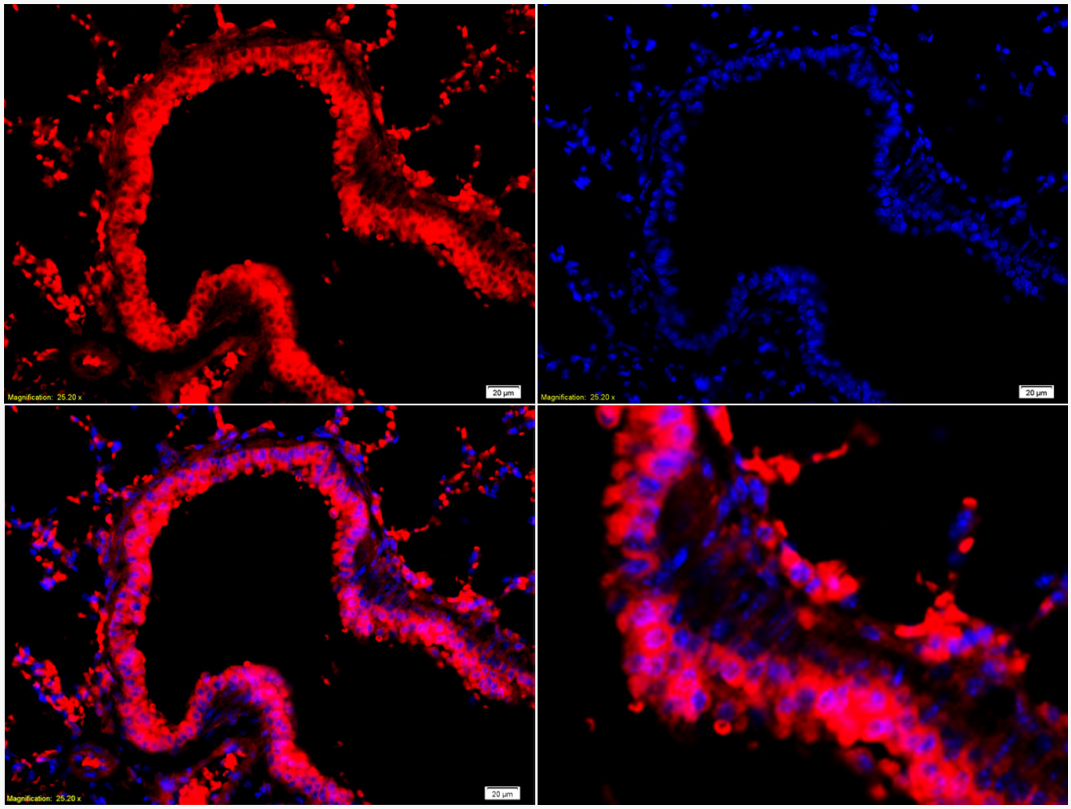

Tissue/cell: Mouse lung tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-NK3R Polyclonal Antibody, Unconjugated(SL0166R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(SL0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

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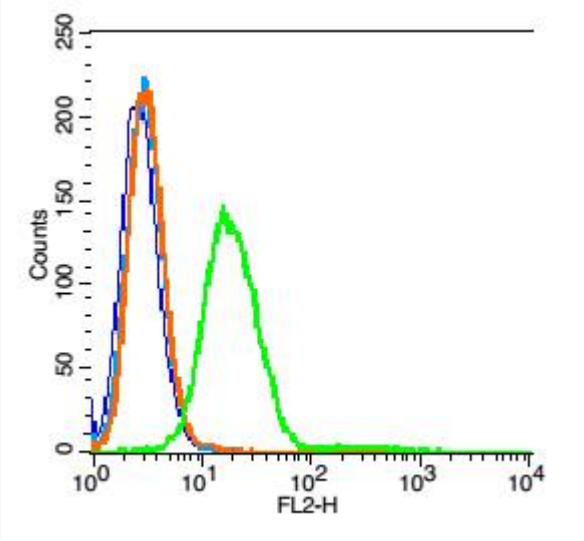

Blank control: RSC96(blue).

Primary Antibody: Rabbit Anti- Neurokin B receptor antibody(SL0166R), 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

Primary antibody (SL0166R, 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.