

## Rabbit Anti-Neurokinin 1 Receptor antibody

SL0064R

**Product Name** Neurokinin 1 Receptor

**Chinese Name** P 物质受体抗体

**Alias** Neurokinin 1; Neurokinin 1 Receptor; NK 1 receptor; NK 1R; NK1 receptor; NK-1R; NK1R; NKIR; SPR; Substance P receptor; TAC 1R; TAC1R; Tachykinin 1 receptor; Tachykinin receptor 1; Tachykinin receptor 1; TACR1. NK1-R

**Research Area** Neurobiology The new supersedes the old

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Human,Rat(predicted:Mouse)

**Applications** WB=1:500-2000,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** 45kDa

**Cellular localization** The cell membrane

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human SPR: 2-50/407  
<Extracellular>

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** Human,Rat(predicted:Mouse)1M TBS(pH7.4) with 1% BSA,  
Human,Rat(predicted:Mouse)3% Proclin300 and 50% Glycerol.

**Storage** Shipped at 4°C. 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](#)

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This gene belongs to a gene family of tachykinin receptors. These tachykinin receptors are characterized by interactions with G proteins and contain seven hydrophobic transmembrane regions. This gene encodes the receptor for the tachykinin substance P, also referred to as neurokinin 1. The encoded protein is also involved in the mediation of phosphatidylinositol metabolism of substance P. [provided by RefSeq, Sep 2008]

**Function:**

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

**Subunit:**

Interacts with ARRB1

**Subcellular Location:**

Cell membrane; Multi-pass membrane protein.

**Similarity:**

Belongs to the G-protein coupled receptor 1 family.

**Product  
Detail**

**SWISS:**  
P25103

**Gene ID:**  
6869

**Database links:**

[Entrez Gene: 6869](#) Human

[Entrez Gene: 21336](#) Mouse

[Entrez Gene: 24807](#) Rat

[Omim: 162323](#) Human

[SwissProt: P25103](#) Human

[SwissProt: P30548](#) Mouse

[SwissProt: P14600](#) Rat

[Unigene: 633301](#) Human

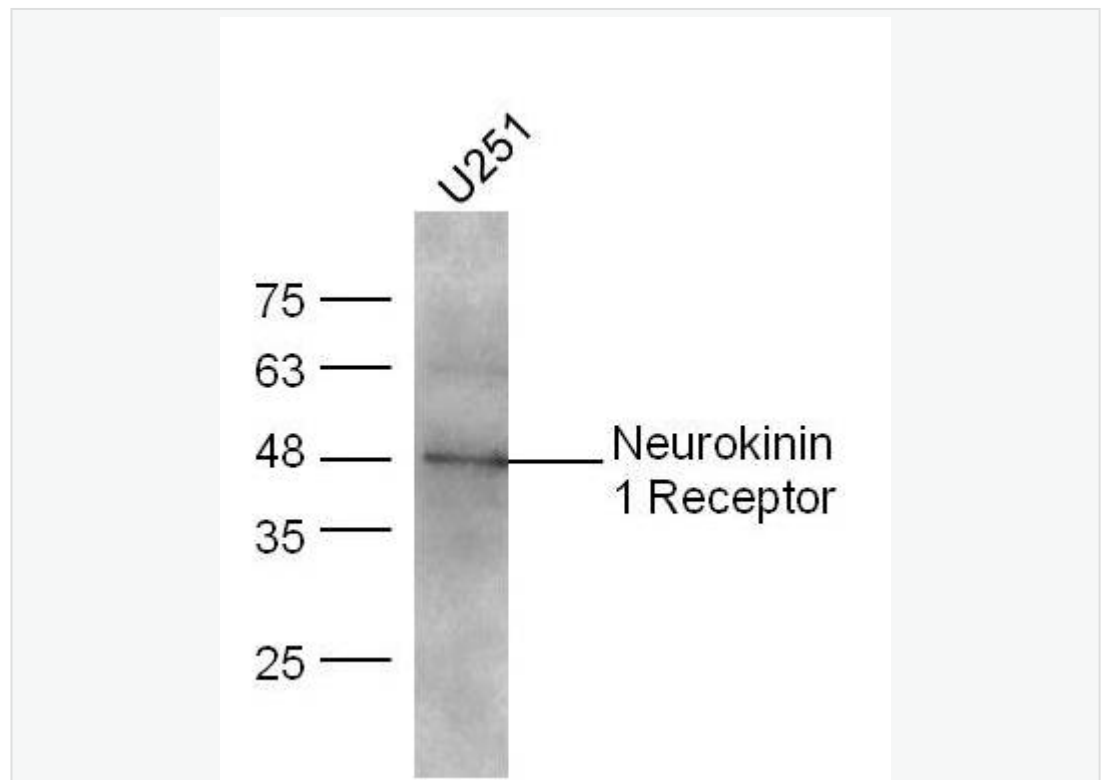
[Unigene: 8055](#) Mouse

[Unigene: 89609](#) Rat

此抗体与大、小鼠、及豚鼠均有 React Species。P 物质是由 11 个氨基酸组成的多肽，主要分布于感觉神经纤维、后根神经节和脊髓后角，作为重要的神经递质或调制因子参与伤害性刺激的传递，该递质与突触后膜上 P 物质受体结合，将痛冲动传入中枢，产生疼痛反应。

P 物质与神经源性炎症、瘙痒及疼痛的产生有关，通过刺激肥大细胞释放组织胺、缓激肽及前列腺素等致炎、致敏、致痛物质，引起一系列病理反应，P 物质除作为伤害性信息的信使外，本身又为炎症介质。

Product  
Picture



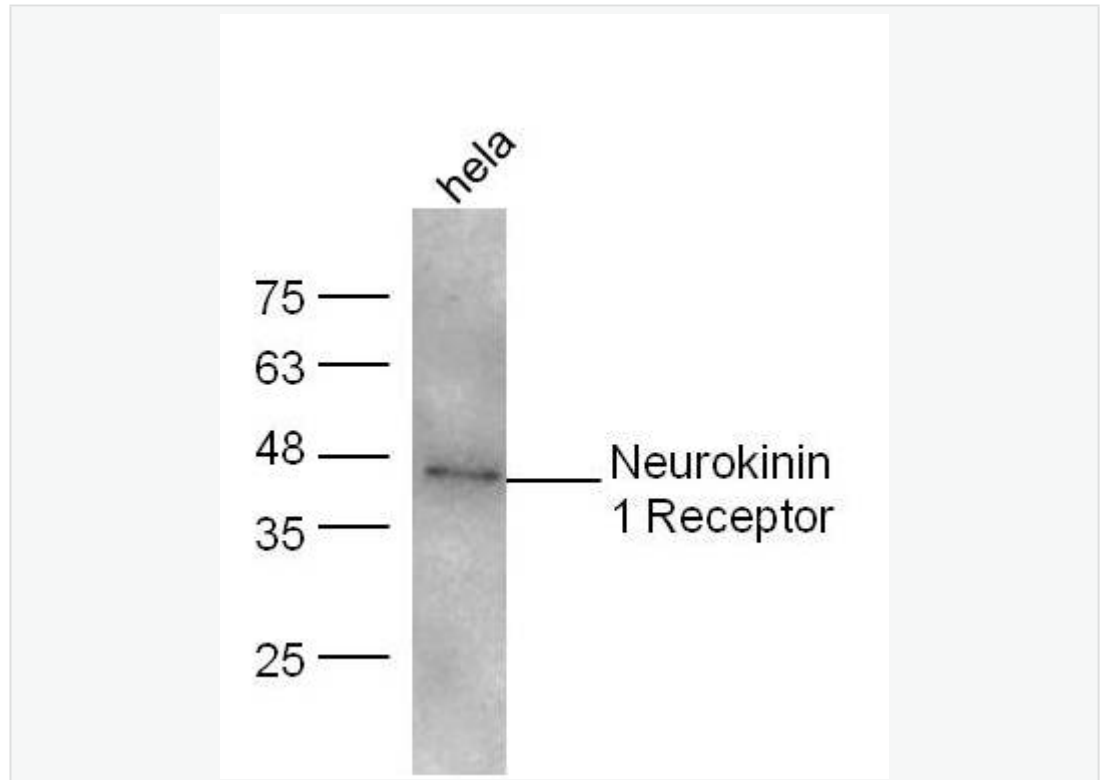
Sample: U251 Cell Lysate at 40 ug

Primary: Anti-Neurokinin1 Receptort (SL0064R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 45 kD

Observed band size: 48 kD



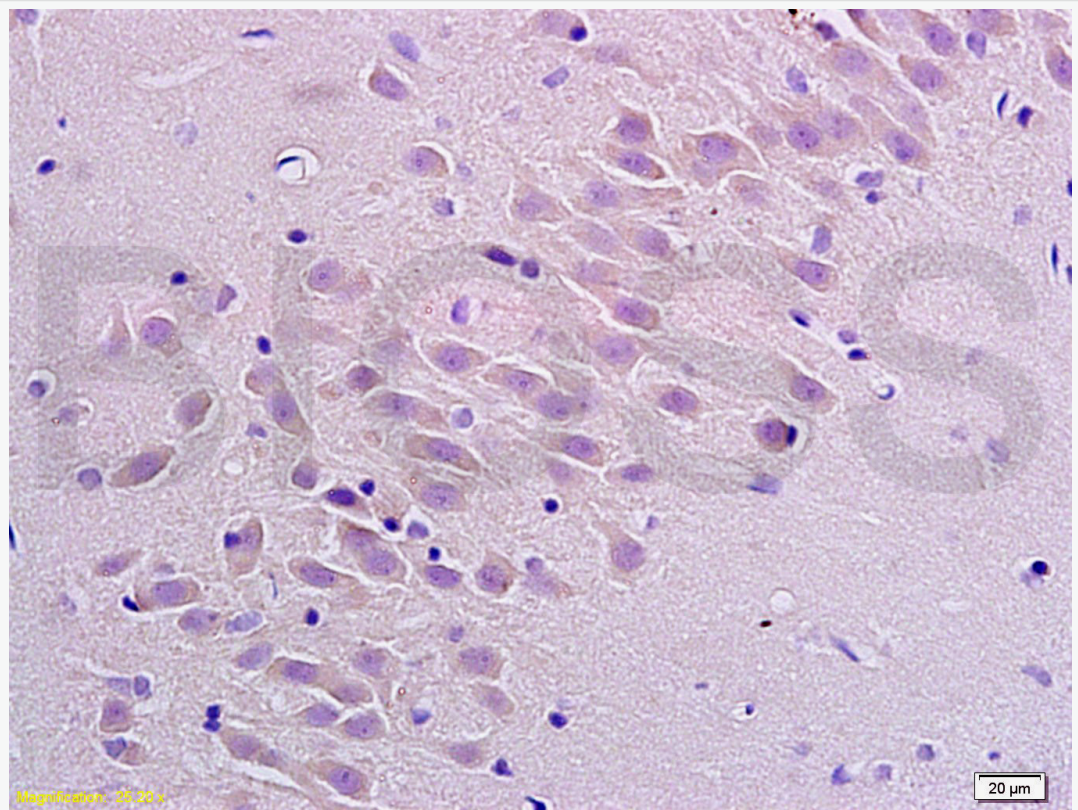
Sample: HeLa Cell Lysate at 40 ug

Primary: Anti-Neurokinin1 Receptor (SL0064R) at 1/300 dilution

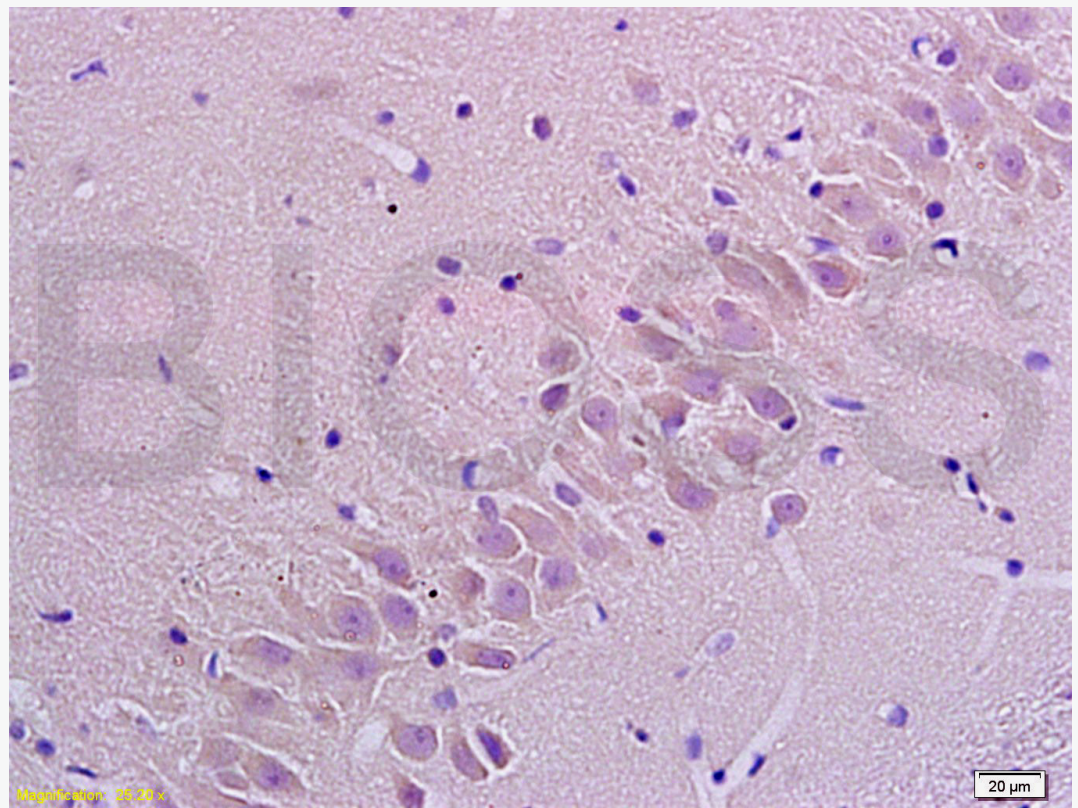
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 45 kD

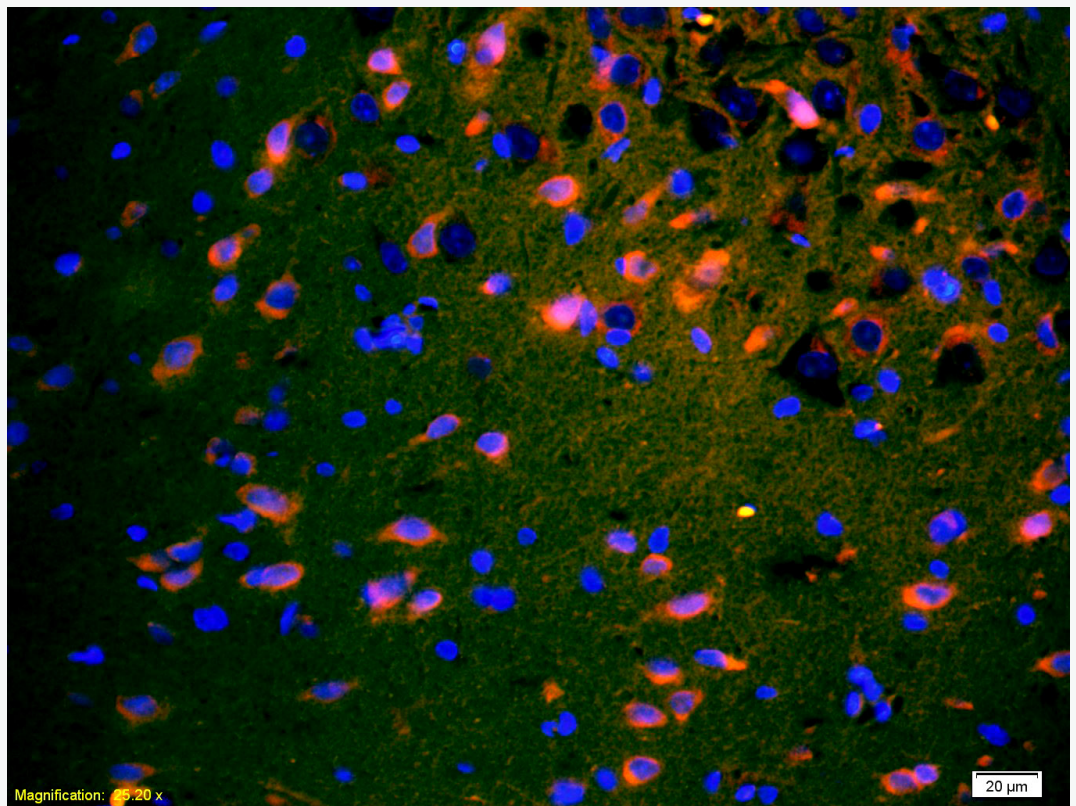
Observed band size: 45 kD



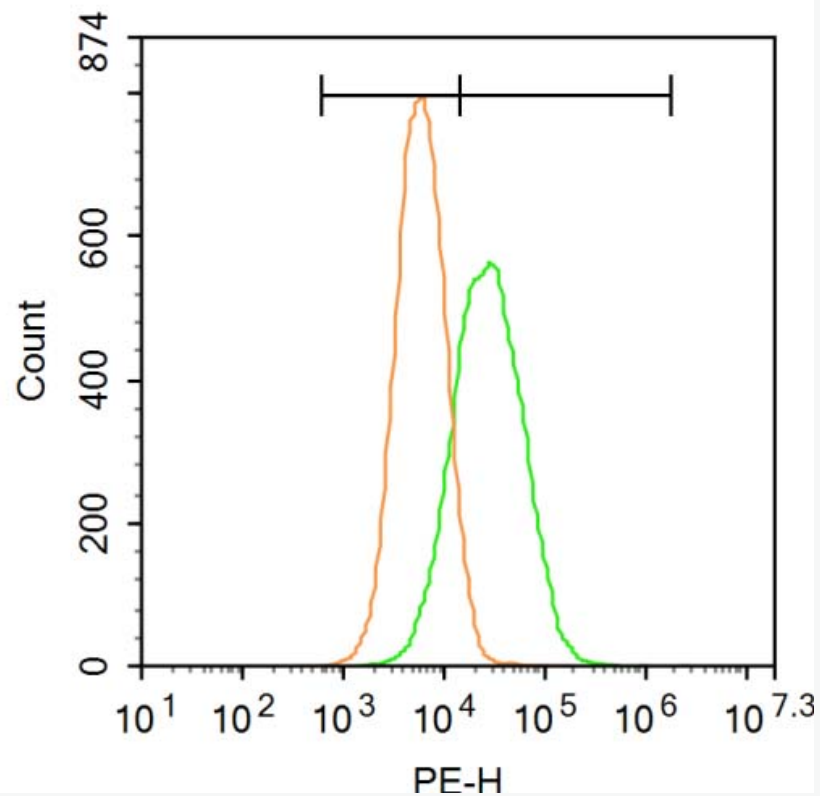
Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( Human,Rat(predicted:Mouse)1M, pH 6.0 ),  
Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen  
peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20  
min;  
Incubation: Anti-SPR Polyclonal Antibody, Unconjugated(SL0064R) 1:200,  
overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023)  
and DAB(C-0010) staining



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



Blank control: HeLa.

Primary Antibody (green line): Rabbit Anti-Neurokinin 1 Receptor antibody (SL0064R)

Dilution:  $1\mu\text{g}/10^6$  cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution:  $1\mu\text{g}/\text{test}$ .

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary



Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.