Datasheet: 8450-0505

**Description:** RAT ANTI SUBSTANCE P

**Specificity:** SUBSTANCE P

**Format:** S/N

**Product Type:** Monoclonal Antibody

**Clone:** NC1/34

**Isotype:** IgG2a

**Quantity:** 0.1 ml

**RRID** AB_2200292

**Applications**

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td></td>
<td></td>
<td>1/100 - 1/200</td>
</tr>
<tr>
<td>Immunohistology - Paraffin (1)</td>
<td></td>
<td></td>
<td></td>
<td>1/100 - 1/200</td>
</tr>
<tr>
<td>Immunofluorescence</td>
<td></td>
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</table>

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product does not require antigen retrieval prior to staining of formalin fixed, paraffin embedded sections.

**Species Cross Reactivity**

Reacts with: Pig, Pigeon, Bichir, Rabbit, Human, Bovine, Guinea Pig, Calanus sp., Cancer sp., Panilurus sp., Homarus sp., Mudpuppy, Lamprey, Crayfish, Zebrafish, Bullfrog, Cockroach, Sheep, Cowbird, Rat, Spadefoot toad, Chicken, Chinchilla, Camel, Beaver

Based on sequence similarity, is expected to react with: Mammals, Crustacea, Amphibia

**N.B.** Antibody reactivity and working conditions may vary between species.

**Product Form**

Tissue Culture Supernatant - liquid

**Preservative Stabilisers**

0.05% Thiomersal

**Immunogen**

Substance P conjugated to Bovine Serum Albumin.

**External Database Links**

<table>
<thead>
<tr>
<th>UniProt:</th>
<th>Related reagents</th>
</tr>
</thead>
<tbody>
<tr>
<td>P20366</td>
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</tr>
</tbody>
</table>

**Entrez Gene:**
TAC1 Related reagents

Synonyms
NKA, NKNA, TAC2

Fusion Partners
Spleen cells from immunised Wistar rat were fused with cells of the NS1/1-Ag 4-1 myeloma cell line.

Specificity
Rat anti substance P antibody, clone NC1/34 recognizes the COOH terminal end of substance P, a short polypeptide neurotransmitter that regulates the excitability of dorsal horn nociceptive neurons. It is known to have a role in several physiologic activities such as pain transmission, the vomiting reflex, salivary secretion and smooth muscle contraction.

5% reactivity is observed with eledoisin. It does not react with Leu or Met-enkephalin, somatostatin or beta-endorphin.

References
37. Zalecki, M. (2019) Gastric ulcer induced changes in substance P and Nk1, Nk2, Nk3 receptors expression in different stomach localizations with regard to intrinsic neuronal system. *Histochem Cell Biol.* 151 (1): 29-42.

**Storage**

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**
18 months from date of despatch.

**Health And Safety Information**
Material Safety Datasheet documentation #10522 available at:

**Regulatory**
For research purposes only

### Related Products

#### Recommended Secondary Antibodies

- **Rabbit Anti Rat IgG (STAR17...)**
  - FITC
- **Goat Anti Rat IgG (STAR9...)**
  - FITC
- **Goat Anti Rat IgG (STAR131...)**
  - Alk. Phos., Biotin
- **Goat Anti Rat IgG (STAR73...)**
  - RPE
- **Rabbit Anti Rat IgG (STAR21...)**
  - HRP
- **Goat Anti Rat IgG (STAR72...)**
  - HRP
- **Rabbit Anti Rat IgG (STAR16...)**
  - DyLight®800
- **Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)**
  - DyLight®800

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