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

## Product Details

### 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.abdserotec.com/protocols](http://www.abdserotec.com/protocols).

<table>
<thead>
<tr>
<th>Applications</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>
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<tr>
<td>Immunohistology - Paraffin(1)</td>
<td></td>
<td></td>
<td></td>
<td>1/100 - 1/200</td>
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<tr>
<td>Immunofluorescence</td>
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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

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

- **UniProt:**
  - [P20366](http://www.uniprot.org/uniprot/P20366) Related reagents

- **Entrez Gene:**
  - [6863](https://www.ncbi.nlm.nih.gov/gene/6863) TAC1 Related reagents

### Synonyms
NKA, NKNA, TAC2
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 eldeoisin. It does not react with Leu or Met-enkephalin, somatostatin or beta-endorphin.

**References**


**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.

**Shelf Life**

18 months from date of despatch.

**Health And Safety Information**


**Regulatory**

For research purposes only

**Recommended Products**

**Recommended Secondary Antibodies**

- Goat Anti Rat IgG (STAR73...)
- Goat Anti Rat IgG (STAR69...)
- Rabbit Anti Rat IgG (STAR16...)
- Rabbit Anti Rat IgG (STAR20...)
- Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)
- Goat Anti Rat IgG (STAR72...)
- Goat Anti Rat IgG (STAR21...)
- Goat Anti Rat IgG (STAR131...)
- Rabbit Anti Rat IgG (STAR17...)
- RPE
- FITC
- DyLight®800
- RPE
- HRP
- HRP
- Alk. Phos., Biotin
- FITC

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