**Datasheet: 8450-0004**

<table>
<thead>
<tr>
<th><strong>Description</strong></th>
<th>RABBIT ANTI HUMAN SUBSTANCE P</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Specificity</strong></td>
<td>SUBSTANCE P</td>
</tr>
<tr>
<td><strong>Format</strong></td>
<td>Purified</td>
</tr>
<tr>
<td><strong>Product Type</strong></td>
<td>Polyclonal Antibody</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>Polyclonal IgG</td>
</tr>
<tr>
<td><strong>Quantity</strong></td>
<td>0.5 ml</td>
</tr>
</tbody>
</table>

### 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>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>1/50 - 1/200</td>
</tr>
<tr>
<td>Immunohistology - Paraffin(1)</td>
<td></td>
<td></td>
<td></td>
<td>1/50 - 1/200</td>
</tr>
<tr>
<td>Immunofluorescence</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</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 the appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

**Target Species**
Human

**Species Cross Reactivity**
Reacts with: Chicken, Mouse

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

**Product Form**
Purified IgG - liquid

**Preparation**
Purified IgG prepared by affinity chromatography on Protein G

**Buffer Solution**
Phosphate buffered saline

**Preservative Stabilisers**
0.09% Sodium Azide (NaN₃)

**Approx. Protein Concentrations**
5.0mg/ml

**Immunogen**
Synthetic substance P conjugated to Keyhole limpet hemocyanin.

**External Database Links**

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

**Entrez Gene:**
**Synonyms**
NKA, NKNA, TAC2

**Specificity**
**Rabbit anti Human Substance P antibody** recognizes human Protachykinin-1, also known as PPT. Protachykinin-1 is a 129 amino acid ~15kDa tachycrin involved in the excitation of neurons. Protachykinin-1 can be cleaved into a number of chains including substance P, neurokinin A, neuropeptide K, neuropeptide y and c-terminal flankning peptide. Rabbit anti Human Substance P antibody recognizes an epitope withing the substance P region of the molecule. There are potentially four isoforms of Protachykinin-1 (α - δ) formed by alternative splicing, all containing the substance P peptide region (UniProt: P20366).

Rabbit anti Human Substance P antibody stains substance P secreting cells of the external median eminance of the hypothalamus and specific cells of the GI tract. Rabbit anti Human Substance P antibody also stains neuronal structures.

**Histology Positive Control Tissue**
Appendix

**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.

Shelf Life
18 months from date of despatch.

Health And Safety Information

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (2AB02...) Biotin
- Sheep Anti Rabbit IgG (STAR34...) FITC
- Goat Anti Rabbit IgG (Fc) (STAR121...) Biotin, FITC, HRP
- Sheep Anti Rabbit IgG (STAR35...) RPE
- Goat Anti Rabbit IgG (H/L) (STAR124...) HRP
- Sheep Anti Rabbit IgG (STAR36...) DyLight®488, DyLight®549, DyLight®800
- Sheep Anti Rabbit IgG (STAR54...) HRP

Recommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)
ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025C)