### Datasheet: AHP1492

<table>
<thead>
<tr>
<th>Description:</th>
<th>RABBIT ANTI TACR3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>TACR3</td>
</tr>
<tr>
<td>Other names:</td>
<td>NK3R</td>
</tr>
<tr>
<td>Format:</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Polyclonal Antibody</td>
</tr>
<tr>
<td>Isotype:</td>
<td>Polyclonal IgG</td>
</tr>
<tr>
<td>Quantity:</td>
<td>0.1 mg</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>Flow Cytometry</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Paraffin(1)</td>
<td></td>
<td></td>
<td></td>
<td>5μg/ml</td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Blotting</td>
<td></td>
<td></td>
<td></td>
<td>0.5 - 1.0μg/ml</td>
</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 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: Mouse  
**N.B.** Antibody reactivity and working conditions may vary between species.

### Product Form

Purified IgG - liquid

### Antiserum Preparation

Antiserum to human TACR3 was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.02% Sodium Azide (NaN₃)

### Approx. Protein Concentrations

IgG concentration 1.0mg/ml
**Immunogen**  
An 18 amino acid peptide from near the centre of human TACR3.

**External Database Links**

<table>
<thead>
<tr>
<th>UniProt:</th>
<th>P29371</th>
<th>Related reagents</th>
</tr>
</thead>
</table>

**Entrez Gene:**

<table>
<thead>
<tr>
<th>Entrez Gene:</th>
<th>6870</th>
<th>TAC3</th>
<th>Related reagents</th>
</tr>
</thead>
</table>

**Synonyms**  
NK3R, TAC3R

**Specificity**  
AHP1492 recognises human TACR3 otherwise known as NK3 Receptor (NK3R), a 52.2 kDa multi-pass membrane protein belonging to the G-protein coupled receptor 1 family.

TACR3 is a receptor for the tachykinin neuropeptide, neuromedin-k otherwise known as neurokinin B and is highly expressed in the supraoptic and paraventricular nuclei. Following binding of its ligand, NK3R activates a phosphatidylinositol-calcium second messenger system, and it is likely that these signals lead to the release of vasopressin and oxytocin into the circulation. Studies with mice indicate that TACR3 is involved in learning and memory.

AHP1492 does not recognise NK1R or NK2R.

**Histology Positive Control Tissue**  
Human brain

**Western Blotting**  
AHP1492 detects a band of approximately 46kDa in RAW264.7 cell lysates.

**Further Reading**


**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**  
Material Safety Datasheet Documentation #10040 available at:  

**Regulatory**  
For research purposes only
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)