

## Datasheet: AHP1331

|                      |                         |
|----------------------|-------------------------|
| <b>Description:</b>  | RABBIT ANTI HUMAN TRPA1 |
| <b>Specificity:</b>  | TRPA1                   |
| <b>Format:</b>       | Purified                |
| <b>Product Type:</b> | Polyclonal Antibody     |
| <b>Isotype:</b>      | Polyclonal IgG          |
| <b>Quantity:</b>     | 50 µg                   |

## 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.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                                | Yes | No | Not Determined | Suggested Dilution |
|--------------------------------|-----|----|----------------|--------------------|
| Flow Cytometry                 |     |    | ▪              |                    |
| Immunohistology - Frozen       |     |    | ▪              |                    |
| Immunohistology - Paraffin (1) | ▪   |    |                | 10 - 20ug/ml       |
| ELISA                          |     |    | ▪              |                    |
| Immunoprecipitation            |     |    | ▪              |                    |
| Western Blotting               |     |    | ▪              |                    |
| Functional Assays              |     |    | ▪              |                    |

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.**

|                                 |  |
|---------------------------------|--|
| <b>Target Species</b>           | Human  |
| <b>Product Form</b>             | Purified IgG - liquid  |
| <b>Antiserum Preparation</b>    | Antisera to human TRPA1 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography. |
| <b>Buffer Solution</b>          | Phosphate buffered saline  |
| <b>Preservative Stabilisers</b> | 0.1% Sodium Azide (NaN <sub>3</sub> )  |

|  |  |
|--|--|
| <b>Approx. Protein Concentrations</b>    | IgG concentration 1.0mg/ml   |
| <b>Immunogen</b>                         | Synthetic peptide: internal domain of human TRPA1, conjugated to Keyhole Limpet Hemocyanin (KLH).  |
| <b>External Database Links</b>           | <p><b>UniProt:</b><br/> <a href="#">O75762</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">8989</a>    TRPA1    <a href="#">Related reagents</a></p>   |
| <b>Synonyms</b>                          | ANKTM1   |
| <b>RRID</b>                              | AB_2241112   |
| <b>Specificity</b>                       | <p><b>Rabbit anti Human TRPA1 antibody</b> detects Transient receptor potential A1 (TRPA1), an excitatory cation channel that is highly expressed in nociceptive neurons and plays an important role in inflammatory pain. TRPA1 mediates the response to the proalgesic bradykinin as well as to pungent irritants found in mustards, garlic, and cinnamon.</p> <p>TRPA1 may also be involved in hearing (as the mammalian hair cell mechanotransducer) and in the detection of cold stimuli.</p> |
| <b>Histology Positive Control Tissue</b> | Spinal cord, DRG.  |
| <b>Further Reading</b>                   | 1. Story, G.M. & GereauRw4, t.h. (2006) Numbing the senses: role of TRPA1 in mechanical and cold sensation. <a href="#">Neuron. 50 (2): 177-80.</a>  |
| <b>Storage</b>                           | <p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>  |
| <b>Guarantee</b>                         | 12 months from date of despatch  |
| <b>Health And Safety Information</b>     | Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP1331">https://www.bio-rad-antibodies.com/SDS/AHP1331</a><br>10040  |
| <b>Regulatory</b>                        | For research purposes only   |

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

## Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
|----------------------------------|---|------------------|---|---------------|---|

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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