

## Datasheet: AHP1162

|                      |                                      |
|----------------------|--------------------------------------|
| <b>Description:</b>  | RABBIT ANTI HUMAN SPHK1 (N-TERMINAL) |
| <b>Specificity:</b>  | SPHK1 (N-TERMINAL)                   |
| <b>Other names:</b>  | SPHINGOSINE KINASE 1                 |
| <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) | ▪   |    |                | 5 - 15ug/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 SphK1 were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography. |
| <b>Buffer Solution</b>       | Phosphate buffered saline   |
| <b>Preservative</b>          | 0.1% Sodium Azide (NaN <sub>3</sub> )   |

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 1.0mg/ml

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**Immunogen** Synthetic peptide corresponding to the N-terminal domain of human SphK1, conjugated to KLH.

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**External Database Links**

**UniProt:**  
[Q9NYA1](#) [Related reagents](#)

**Entrez Gene:**  
[8877](#) SPHK1 [Related reagents](#)

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**Synonyms** SPHK, SPK

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**RRID** AB\_808545

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**Specificity** **Rabbit anti Human SphK1 antibody** detects epitopes within the N-terminal region human SphK1, also known sphingosine kinase 1. SphK1 catalyzes the phosphorylation of sphingosine 1-phosphate; an important lipid mediator with multiple functions. In light of this, SphK1 has been implicated in regulation of Ca<sup>2+</sup> homeostasis, inflammation, immunity and cancer growth. However, its central function is thought to be in the development of the cardiovascular and central nervous system. SphK1 has a molecular weight of ~42 kDa.

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**Histology Positive Control Tissue** Adrenal, Pheochromocytes.

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**References**

1. Maceyka, M. *et al.* (2005) SphK1 and SphK2, sphingosine kinase isoenzymes with opposing functions in sphingolipid metabolism. [J Biol Chem. 280 \(44\): 37118-29.](#)
2. Alemany, R. *et al.* (2007) Regulation and functional roles of sphingosine kinases. [Naunyn Schmiedebergs Arch Pharmacol. 374 \(5-6\): 413-28.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

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## Related Products

## Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

## Recommended Useful Reagents

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

[100x ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

**North & South** Tel: +1 800 265 7376

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