

## Datasheet: AHP3001

<b>Description:</b>	RABBIT ANTI SMPD1
<b>Specificity:</b>	SMPD1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µl

### 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
Western Blotting	▪			1/500 - 1/2000

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.

#### Target Species

Human

#### Species Cross Reactivity

Reacts with: Rat, Mouse

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### Product Form

Purified IgG - liquid

#### Antiserum Preparation

Antiserum to SMPD1 was raised by repeated immunization of rabbits with highly purified antigen

#### Buffer Solution

Phosphate buffered saline

#### Preservative Stabilisers

0.02% Sodium Azide  
50% Glycerol

#### Immunogen

Recombinant protein of human SMPD1 / ASM

**External Database  
Links**

**UniProt:**

[P17405](#)    [Related reagents](#)

**Entrez Gene:**

[6609](#) SMPD1    [Related reagents](#)

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**Synonyms**            ASM

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**Specificity**            **Rabbit anti SMPD1 antibody** recognizes sphingomyelin phosphodiesterase, also known as ASM, Sphingomyelin Phosphodiesterase, ASMASE and NPD.

It is a lipid hydrolase that converts sphingomyelin to the bioactive messenger ceramide, and is activated by a number of molecules including TNF-alpha and LPS (Rozanova et al. 2010). Mutations in the SMPD1 gene resulting in deficient ASM production cause Niemann-Pick disease, one type of which causes lethality within three years of life (Schuchman 2007). SMPD1 mutations have also been implicated in sporadic Parkinson's disease (Mao et al. 2017). A role of ASM on mood regulation has been suggested, with high ASM expression implicated in major depressive episodes (Gulbins et al. 2015).

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**Storage**                Store at -20°C  
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 #10049 available at:  
10049: <https://www.bio-rad-antibodies.com/uploads/MSDS/10049.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](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 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 Fax: +44 (0)1865 852 739 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 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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