

## Datasheet: AHP3001

**BATCH NUMBER 158627**

<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

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**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:  
<https://www.bio-rad-antibodies.com/SDS/AHP3001>  
10049

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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](#)

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

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

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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](https://www.bio-rad-antibodies.com/datasheets)

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