

Datasheet: AHP3001

BATCH NUMBER 153404

Description:	RABBIT ANTI SMPD1
Specificity:	SMPD1
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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](#)

Synonyms

ASM

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).

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.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10049 available at:
<https://www.bio-rad-antibodies.com/SDS/AHP3001>
10049

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

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

North & South America

Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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)

'M361990:200415'

