

Datasheet: AHP3001

BATCH NUMBER 170303

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

0.05% ProClin 300
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

Acknowledgements

ProClin is a trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow.

Health And Safety Information

Material Safety Datasheet documentation #20376 available at:
<https://www.bio-rad-antibodies.com/SDS/AHP3001>
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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](#)

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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

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