abcam

Product datasheet

Anti-nSMase antibody [EPR6718] ab131330

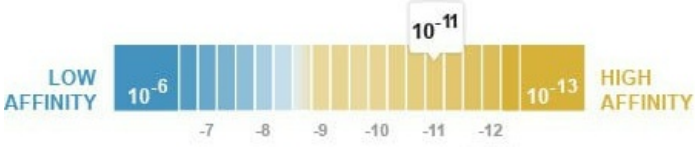
Recombinant RabMAb

5 References 6 Images

Overview

Product name	Anti-nSMase antibody [EPR6718]
Description	Rabbit monoclonal [EPR6718] to nSMase
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP **Unsuitable for:** Flow Cyt or IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human nSMase aa 1-100. The exact sequence is proprietary.
Positive control	WB: 293T, MOLT4 and K562 cell lysates; U-87MG cells; Mouse brain and Rat brain lysates. IP: Mouse brain lysate
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	K_D = 6.20 x 10^{-11} M  **Learn more about K_D**
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide

	Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6718
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab131330 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

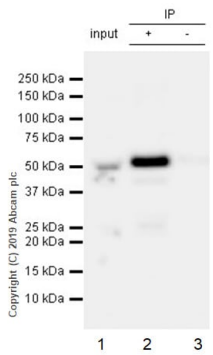
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 50 kDa (predicted molecular weight: 48 kDa).
IP		1/10 - 1/100.

Application notes Is unsuitable for Flow Cyt or IHC-P.

Target

Function	Converts sphingomyelin to ceramide. Hydrolyze 1-acyl-2-lyso-sn-glycero-3-phosphocholine (lyso-PC) and 1-O-alkyl-2-lyso-sn-glycero-3-phosphocholine (lyso-platelet-activating factor). The physiological substrate seems to be Lyso-PAF.
Sequence similarities	Belongs to the neutral sphingomyelinase family.
Cellular localization	Membrane.

Images



Immunoprecipitation - Anti-nSMase antibody [EPR6718] (ab131330)

ab131330 (purified) at 1:30 dilution (2µg) immunoprecipitating nSMase in Mouse brain lysate.

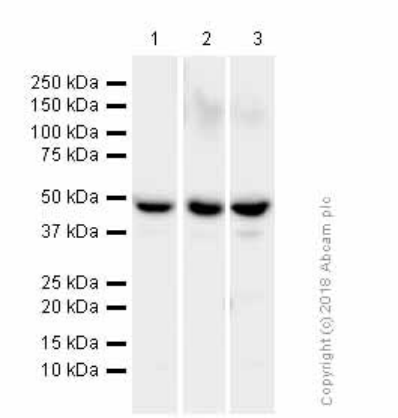
Lane 1 (input): Mouse brain lysate 10µg

Lane 2 (+): ab131330 & Mouse brain lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab131330 in Mouse brain lysate

For western blotting, VeriBlot for IP Detection Reagent(HRP) (**ab131366**) was used for detection at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.



Western blot - Anti-nSMase antibody [EPR6718] (ab131330)

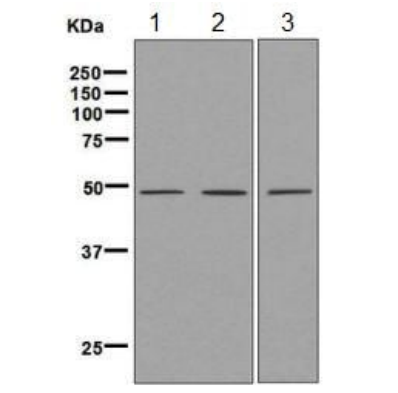
All lanes : Anti-nSMase antibody [EPR6718] (ab131330) at 1/1000 dilution (Purified)

Lane 1 : MOLT-4 (Human lymphoblastic leukemia T lymphoblast) whole cell lysates
Lane 2 : Mouse brain lysates
Lane 3 : Rat brain lysates

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 48 kDa
Observed band size: 48 kDa



Western blot - Anti-nSMase antibody [EPR6718] (ab131330)

All lanes : Anti-nSMase antibody [EPR6718] (ab131330) at 1/1000 dilution

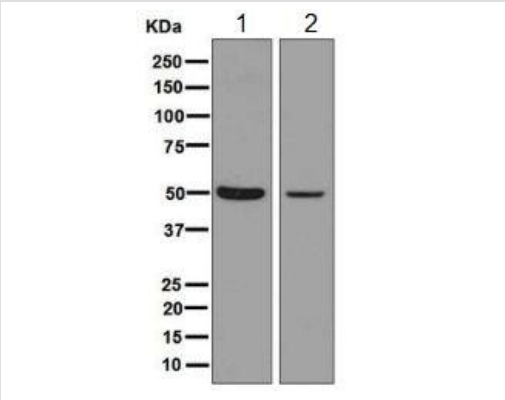
Lane 1 : 293T cell lysate
Lane 2 : MOLT4 cell lysate
Lane 3 : K562 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 48 kDa

This image was generated using the unpurified version of the product.



Western blot - Anti-nSMase antibody [EPR6718] (ab131330)

All lanes : Anti-nSMase antibody [EPR6718] (ab131330) at 1/1000 dilution

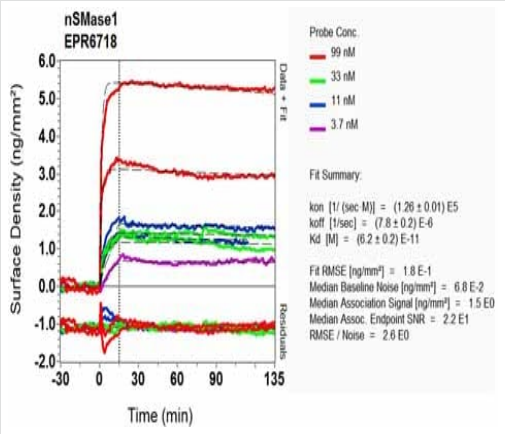
Lane 1 : Mouse brain lysate
Lane 2 : Rat brain lysates

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 48 kDa

This image was generated using the unpurified version of the product.

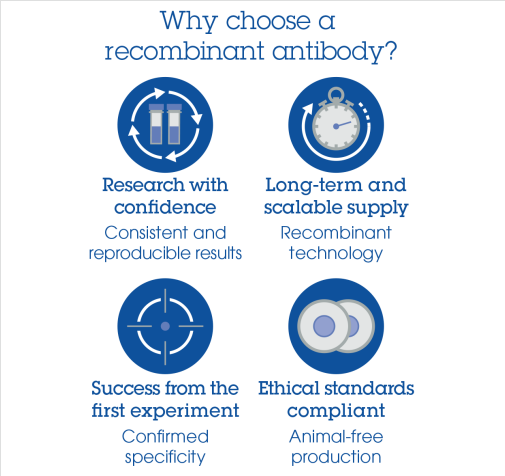


OI-RD Scanning - Anti-nSMase antibody [EPR6718] (ab131330)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D



Anti-nSMase antibody [EPR6718] (ab131330)

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