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Datasheet for ABIN5536932  
**anti-SMPD1 antibody (C-Term)**

3 Images

### Overview

|                      |   |
|----------------------|---|
| Quantity:            | 400 µL  |
| Target:              | SMPD1   |
| Binding Specificity: | AA 391-419, C-Term  |
| Reactivity:          | Human   |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This SMPD1 antibody is un-conjugated  |
| Application:         | Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

### Product Details

|               |  |
|---------------|--|
| Immunogen:    | This SMPD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 391-419 amino acids from the C-terminal region of human SMPD1. |
| Isotype:      | Ig Fraction  |
| Purification: | This antibody is purified through a protein A column, followed by peptide affinity purification.   |

### Target Details

|                   |  |
|-------------------|--|
| Target:           | SMPD1  |
| Alternative Name: | SMPD1 ( <a href="#">SMPD1 Products</a> )   |
| Background:       | The protein encoded by this gene is a lysosomal acid sphingomyelinase that converts sphingomyelin to ceramide. The encoded protein also has phospholipase C activity. Defects in |

## Target Details

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this gene are a cause of Niemann-Pick disease type A (NPA) and Niemann-Pick disease type B (NPB). Multiple transcript variants encoding different isoforms have been identified. [provided by RefSeq].

Molecular Weight: 70 kDa

Gene ID: 6609

UniProt: [P17405](#)

## Application Details

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Application Notes: For FACS starting dilution is: 1:25

For WB starting dilution is: 1:2000

For IHC-P starting dilution is: 1:10~50

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 0.5 mg/mL

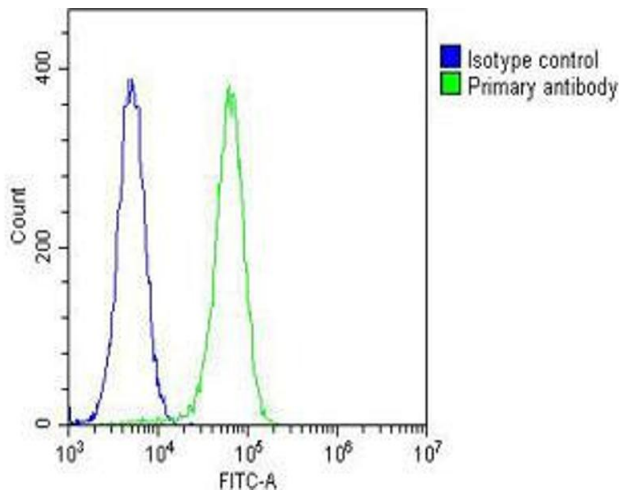
Buffer: Supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

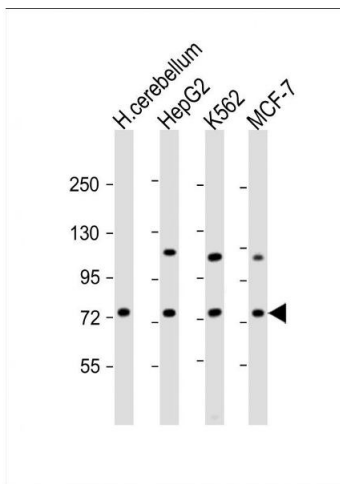
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Store at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.



**Image 1.** Overlay histogram showing K562 cells stained with Antibody (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG (1ug/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was performed.



### Western Blotting

**Image 2.** Western Blot at 1:2000 dilution Lane 1: human cerebellum lysate Lane 2: HepG2 whole cell lysate Lane 3: K562 whole cell lysate Lane 4: MCF-7 whole cell lysate Lysates/proteins at 20 ug per lane.



### Immunohistochemistry

**Image 3.** SMPD1 Antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.