

## Product datasheet for **CF804413**

### Acid sphingomyelinase (SMPD1) Mouse Monoclonal Antibody [Clone ID: OTI10C5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI10C5
Applications:	WB
Recommended Dilution:	WB 1:200
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 62-341 of human SMPD1 (NP_000534) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	65 kDa
Gene Name:	sphingomyelin phosphodiesterase 1
Database Link:	<a href="#">NP_000534</a> <a href="#">Entrez Gene 6609 Human</a> <a href="#">P17405</a>



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**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 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, Jul 2010]

**Synonyms:**

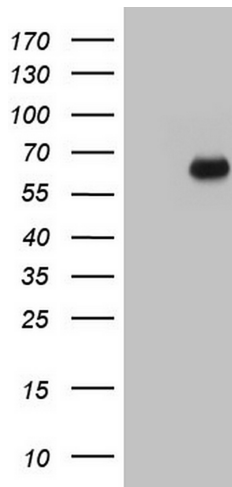
ASM; ASMASE; NPD

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Lysosome, Metabolic pathways, Sphingolipid metabolism

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SMPD1 (RC219758), Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SMPD1. Positive lysates [LY400191] (100ug) and [LC400191] (20ug) can be purchased separately from OriGene.