



# ASM Polyclonal Antibody

<b>Catalog No</b>	BYab-07703
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	SMPD1 ASM
<b>Protein Name</b>	Sphingomyelin phosphodiesterase (EC 3.1.4.12) (Acid sphingomyelinase) (aSMase)
<b>Immunogen</b>	Synthesized peptide derived from part region of human protein
<b>Specificity</b>	ASM Polyclonal Antibody detects endogenous levels of protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	69kD
<b>Cell Pathway</b>	Lysosome . Lipid droplet . Secreted . The secreted form is induced in a time- and dose-dependent by IL1B and TNF as well as stress and viral infection. This increase of the secreted form seems to be due to exocytosis of the lysosomal form and is Ca(2+)-dependent (PubMed:20807762, PubMed:22573858, PubMed:20530211). Secretion is dependent of phosphorylation at Ser-510 (PubMed:17303575). Secretion is induced by inflammatory mediators such as IL1B, IFNG or TNF as well as infection with bacteria and viruses (PubMed:12563314, PubMed:20807762). .
<b>Tissue Specificity</b>	Brain,Fibroblast,Lung,
<b>Function</b>	catalytic activity:Sphingomyelin + H(2)O = N-acylsphingosine + choline phosphate.,disease:Defects in SMPD1 are the cause of Niemann-Pick disease type A (NPA) [MIM:257200]; also referred to as the classical infantile form. Niemann-Pick disease is a clinically and genetically heterogeneous recessive disorder. It is caused by the accumulation of sphingomyelin and other

Nanjing BYabscience technology Co.,Ltd



metabolically related lipids in the lysosomes, resulting in neurodegeneration starting from early life. Patients may show xanthomas, pigmentation, hepatosplenomegaly, lymphadenopathy and mental retardation. Niemann-Pick disease occurs more frequently among individuals of Ashkenazi Jewish ancestry than in the general population. NPA is characterized by very early onset in infancy and a rapidly progressive course leading to death by three years. Defects in SMPD1 are the cause of Niemann-Pick disease type B (NPB) [MIM:60

**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],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**