

Datasheet for ABIN7163131

anti-Sphingomyelin Synthase 1 antibody (AA 48-137)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	Sphingomyelin Synthase 1 (SGMS1)
Binding Specificity:	AA 48-137
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Sphingomyelin Synthase 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Phosphatidylcholine:ceramide cholinephosphotransferase 1 protein (48-137AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	Sphingomyelin Synthase 1 (SGMS1)
Alternative Name:	SGMS1 (SGMS1 Products)
Background:	Background: Sphingomyelin synthases synthesize the sphingolipid, sphingomyelin, through

Target Details

transfer of the phosphatidyl head group, phosphatidylcholine, on to the primary hydroxyl of ceramide. The reaction is bidirectional depending on the respective levels of the sphingolipid and ceramide. Golgi apparatus SMS1 directly and specifically recognizes the choline head group on the substrate, requiring two fatty chains on the choline-P donor molecule in order to be recognized efficiently as a substrate. Major form in macrophages. Required for cell growth in certain cell types such as HeLa cells. Suppresses BAX-mediated apoptosis and also prevents cell death in response to stimuli such as hydrogen peroxide, osmotic stress, elevated temperature and exogenously supplied sphingolipids. May protect against cell death by reversing the stress-inducible increase in levels of proapoptotic ceramide.

Aliases: SGMS1 antibody, MOB antibody, SMS1 antibody, TMEM23 antibody, Phosphatidylcholine:ceramide cholinephosphotransferase 1 antibody, EC 2.7.8.27 antibody, Medulla oblongata-derived protein antibody, Protein Mob antibody, Sphingomyelin synthase 1 antibody, Transmembrane protein 23 antibody

UniProt: [Q86VZ5](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#)

Application Details

Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:200-1:500,

Restrictions: For Research Use only

Handling

Format: Liquid

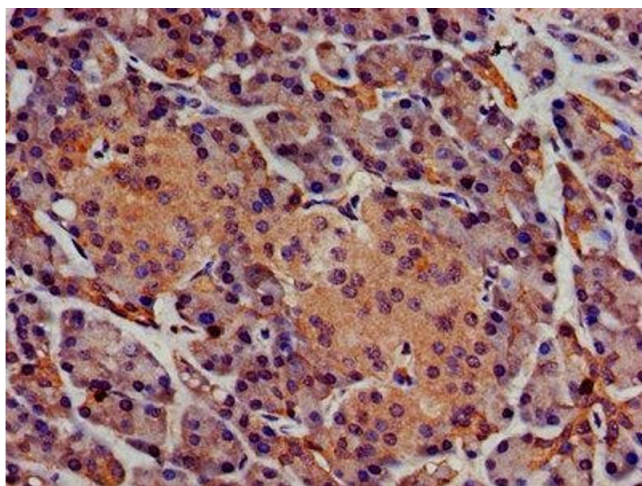
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

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

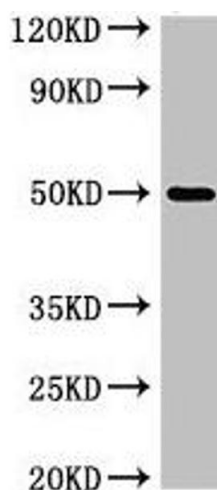
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



Immunohistochemistry

Image 1. IHC image of ABIN7163131 diluted at 1:400 and staining in paraffin-embedded human pancreatic tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Western Blotting

Image 2. Western Blot Positive WB detected in: K562 whole cell lysate All lanes: SGMS1 antibody at 4 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 49, 26 kDa Observed band size: 49 kDa