OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AP05279PU-N

Sphingomyelin Synthase 1 (SGMS1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	**ELISA.** **Western Blot:** 5-10 µg. **Immunohistochemistry.** *Postive Control:* Brain, heart, kidney, liver, muscle and stomach.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide derived from the Human Sphingomyelin Synthase 1 protein
Specificity:	This antibody detects Sphingomyelin Synthase 1, expressed in brain, heart, kidney, liver, muscle and stomach.
Formulation:	Phosphate buffered saline with 0.08% Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Ligand Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	sphingomyelin synthase 1
Database Link:	Entrez Gene 259230 Human Q86VZ5

View online »

Background: A bidirectional lipid cholinephosphotransferases capable of converting phosphatidylcholine (PC) and ceramide to sphingomyelin (SM) and diacylglycerol (DAG) and the inverse reaction. Direction is dependent on the relative concentrations of DAG and ceramide as phosphocholine acceptors. Directly and specifically recognizes the choline head group on the substrate. Also requires two fatty chains on the choline-P donor molecule in order to be recognized efficiently as a substrate. May not function strictly as a SM synthase. Inhibited by bacterial PC-phospholipase C inhibitor D609. Localized to Golgi apparatus; Golgi membrane; multi-pass membrane protein. Possibly present on Brain, heart, kidney, liver, muscle and stomach.

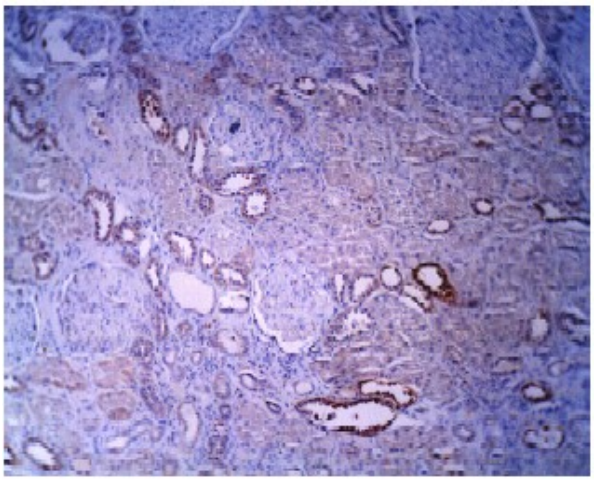
Synonyms: Transmembrane protein 23, SMS1, Sphingomyelin synthase 1, MOB, Medulla oblongata-derived protein

Note: **Predicted Molecular Weight:** 49208 kDa

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

Product images:



Human kidney section stained with anti-SMS-1 antibody at 2 ug/ml. Anti-rabbit Ig H+L HRP conjugate (5 ug/ml) without antigen retrieval.