

Product datasheet for **AP05206PU-N**

Sphingomyelin Synthase 1 (SGMS1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	ELISA. Western Blot: 5 - 10 µg/ml. Positive Control: Brain, heart, kidney, liver, muscle and stomach.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide derived from the mouse sphingomyelin synthase 1 protein
Specificity:	This antibody reacts to Sphingomyelin Synthase 1.
Formulation:	Phosphate buffered saline, pH 7.4 State: Purified State: Liquid purified Ig
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	The antibody can be shipped at ambient temperature. Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	sphingomyelin synthase 1
Database Link:	Entrez Gene 259230 Human Q86VZ5



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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
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, Sphingolipid metabolism