

Product datasheet for **AP05208PU-N**

Sphingomyelin Synthase 2 (SGMS2) 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
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide derived from the human sphingomyelin synthase 2 protein.
Specificity:	This antibody reacts to Sphingomyelin Synthase 2.
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 2
Database Link:	Entrez Gene 166929 Human Q8NHU3



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Background:

Sphingomyelin (SM) is a major component of animal plasma membranes. Its production involves the transfer of phosphocholine from phosphatidylcholine and then onto ceramide. This also yields diacylglycerol as a side product. The reaction is catalysed by SM synthase, an important enzyme in the regulation of diacylglycerol and ceramide as anti- and proapoptotic stimuli. SM synthesis occurs in the lumen of the Golgi as well as on or at the cell surface. It is uncertain which SM enzyme forms are present at these different cellular locations. Human, mouse and *Caenorhabditis elegans* genomes each contain at least two different SM synthase (SMS) genes. Human SMS1 is localised to the Golgi, SMS2 resides primarily at the plasma membrane.

Synonyms:

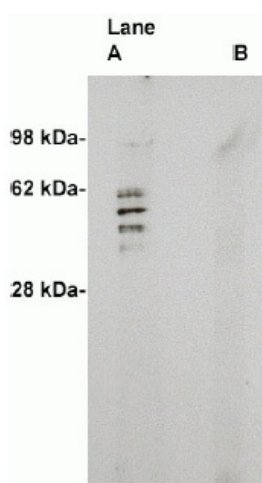
Sphingomyelin synthase 2, SMS2

Protein Families:

Druggable Genome, Transmembrane

Protein Pathways:

Metabolic pathways, Sphingolipid metabolism

Product images:

Western blot on human brain lysate (10 ug/lane) using antibody to Sphingomyelin Synthase 2 (0.5 ug/ml). Lane A] 1 ug/ml antibody alone, lane B] antibody plus 3 ug blocking peptide. Blot was developed with Pierce's Super Sytem West Femto - 1 minute exposure.