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Product datasheet for AP53890PU-N

Sphingomyelin Synthase 2 (SGMS2) (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, IHC, WB
Recommended Dilution:	**ELISA:** 1/1,000. **Western blotting:** 1/100-1/500. **Flow Cytometry:** 1/10-1/50. **Immunohistochemistry:** 1/50-1/100.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 336~365 amino acids from the C-terminal region of Human SGMS2
Specificity:	Recognizes GMS2 (C-term).
Formulation:	PBS with 0.09% (W/V) Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A column followed by peptide Affinity purification
Conjugation:	Unconjugated
Storage:	Store the antibody 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 2
Database Link:	Entrez Gene 166929 Human Q8NHU3

View online »

Background: Sphingomyelin, a major component of cell and Golgi membranes, is made by the transfer of phosphocholine from phosphatidylcholine onto ceramide, with diacylglycerol as a side product. The protein encoded by this gene is an enzyme that catalyzes this reaction primarily at the cell membrane. The synthesis is reversible, and this enzyme can catalyze the reaction in either direction. The encoded protein is required for cell growth. Three transcript variants encoding the same protein have been found for this gene.

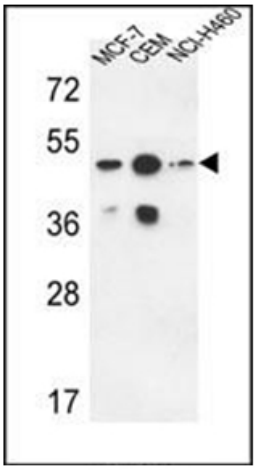
Synonyms: Sphingomyelin synthase 2, SMS2

Note: **Molecular Weight:** 42280 Da

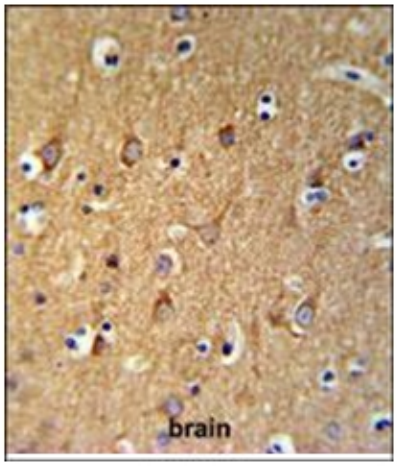
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

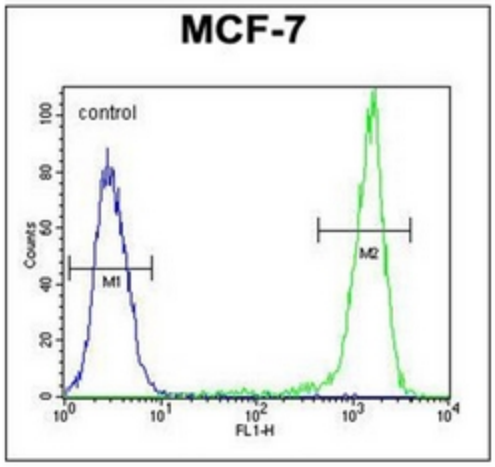
Product images:



Western blot analysis using SGMS2 Antibody (C-term) in MCF-7, CEM, Hela cell line lysates (35ug/lane). This demonstrates the SGMS2 antibody detected the SGMS2 protein (arrow).



Immunohistochemistry analysis in Formalin Fixed, Paraffin Embedded Human brain tissue stained with SGMS2 Antibody (C-term) followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SGMS2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometric analysis of MCF-7 cells using SGMS2 Antibody (C-term) (Right histogram) compared to a negative control cell (Left histogram). FITC-conjugated Goat-anti-Rabbit secondary antibodies were used for the analysis.