

Product datasheet for AP05301PU-N

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

OriGene Technologies, Inc.

NSMase2 (SMPD3) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WB

Recommended Dilution: Western blot (1:400 starting dilution). Protein appears to run lower than expected protein

molecular weight. However, antibody is specific for the protein and band blocks when

blocking peptide used.

Reactivity: Human

Host: Rabbit

Clonality: Polyclonal

Immunogen: Synthetic peptide derived from human sphingomyelin phosphodiesterase 3

Specificity: This antibody detects Sphingomyelin Phosphodiesterase 3, predominantly expressed in the

brain.

Formulation: Phosphate buffered saline with 0.08% sodium azide

State: Aff - Purified State: Liquid Ig fraction

Concentration: lot specific

Purification: Affinity chromatography

Conjugation: Unconjugated

Storage: Store the product (in aliquots) at -20 °C. Can be shipped at 2 - 8 °C.

Avoid repeated freezing and thawing.

Stability: Shelf life: One year from despatch.

Gene Name: sphingomyelin phosphodiesterase 3

Database Link: Entrez Gene 55512 Human

Q9NY59



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Background: Sphingomyelin phosphodiesterase 3 catalyzes the hydrolysis of sphingomyelin to form

ceramide and phosphocholine. Ceramide mediates numerous cellular functions, such as apoptosis and growth arrest, and is capable of regulating these two cellular events independently. It also hydrolyzes sphingosylphosphocholine. Sphingomyelin

phosphodiesterase 3 regulates the cell cycle by acting as a growth suppressor in confluent cells. It likely acts as a regulator of postnatal development and participates in bone and dentin mineralization. It is activated by unsaturated fatty acids and phosphatidylserine. It is

predominantly expressed in the brain.

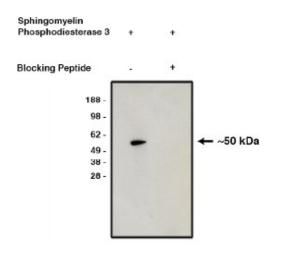
Synonyms: Sphingomyelin phosphodiesterase 3, Neutral sphingomyelinase II, Neutral sphingomyelinase

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Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

Product images:



Western blot using affinity purified nSMase2 antibody on human brain lysate. Antibody without (lane 1) or with (lane 2) blocking peptide. Visualized using mouse anti-rabbit HRP conjugated at 1:200K dilution.