

NSMase2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54420

# Specification

# NSMase2 Polyclonal Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW IHC-P, IHC-F, IF, ICC, E <u>O9NY59</u> Rat, Pig, Dog, Bovine Rabbit Polyclonal 71081

# NSMase2 Polyclonal Antibody - Additional Information

Gene ID 55512

**Other Names** 

Sphingomyelin phosphodiesterase 3, 3.1.4.12, Neutral sphingomyelinase 2, nSMase-2, nSMase2, Neutral sphingomyelinase II, SMPD3 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=14240" target="\_blank">HGNC:14240</a>)

Dilution

<span class ="dilution\_IHC-P">IHC-P~~N/A</span><br \><span class ="dilution\_IHC-F">IHC-F~~N/A</span><br \><span class ="dilution\_IF">IF~~1:50~200</span><br \><span class ="dilution\_ICC">ICC~~N/A</span><br \><span class ="dilution\_E">E~~N/A</span>

Format 0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

# NSMase2 Polyclonal Antibody - Protein Information

Name SMPD3 (HGNC:14240)

### Function

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 2 cellular events independently. Also hydrolyzes sphingosylphosphocholine. Regulates the cell cycle by acting as a growth suppressor in confluent cells. Probably acts as a regulator of postnatal development and participates in bone and dentin mineralization (PubMed:<a href="http://www.uniprot.org/citations/10823942" target="\_blank">10823942</a>, PubMed:<a href="http://www.uniprot.org/citations/14741383" target="\_blank">14741383</a>,



PubMed:<a href="http://www.uniprot.org/citations/15051724" target="\_blank">15051724</a>). Binds to anionic phospholipids (APLs) such as phosphatidylserine (PS) and phosphatidic acid (PA) that modulate enzymatic activity and subcellular location. May be involved in IL-1-beta-induced JNK activation in hepatocytes (By similarity). May act as a mediator in transcriptional regulation of NOS2/iNOS via the NF-kappa-B activation under inflammatory conditions (By similarity).

**Cellular Location** 

Golgi apparatus membrane; Lipid-anchor. Cell membrane; Lipid-anchor. Note=May localize to detergent-resistant subdomains of Golgi membranes of hypothalamic neurosecretory neurons (PubMed:10823942). Localizes to plasma membrane in confluent contact- inhaibited cells (PubMed:15051724)

**Tissue Location** Predominantly expressed in brain.

# NSMase2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

NSMase2 Polyclonal Antibody - Images