

## Anti-SMPD3 Antibody Picoband® Fluoro550 Conjugated

Catalog Number: A04641-Fluoro550

### About SMPD3

Sphingomyelin phosphodiesterase 3 is an enzyme that in humans is encoded by the SMPD3 gene. SMPD3 (Sphingomyelin phosphodiesterase 3; also Neutral sphingomyelinase 2/nSMase2) is a 69-74 kDa member of the neutral sphingomyelinase family of enzymes. It is a monomeric Golgi/plasma membrane enzyme that converts sphingomyelin (a plasma membrane lipid) into ceramide and phosphorylcholine. This generates second messenger components that participate in signal transduction. Human SMPD3 is a two transmembrane, 655 amino acids molecule. It contains an N-terminal luminal segment (aa 1-10), a cytoplasmic region (aa 32-64), and one catalytic domain (aa 340-646). Phosphorylation increases its MW to 78 kDa in SDS-PAGE. There is one potential isoform that possesses an Asn substitution for aa 569-587. Over aa 2-655, human SMPD3 shares 91% aa sequence identity with mouse SMPD3.

### Overview

Product Name	Anti-SMPD3 Antibody Picoband® Fluoro550 Conjugated
Reactive Species	Human
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	Q9NY59

### Technical Details

Immunogen	E.coli-derived human SMPD3 recombinant protein (Position: F184-D553). Human SMPD3 shares 88.9% amino acid (aa) sequence identity with both mouse and rat SMPD3.
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro550 Excitation Wavelength: 562 nm

	Emission Wavelength: 576 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

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