

Anti-SMTNL2 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: A18269-1-Fluoro488

About SMTNL2

The cytoskeletal protein smoothelin is highly conserved among vertebrates and is expressed exclusively by contractile smooth muscle cells where it localizes to the filament network. Smoothelin associates with Actin stress fibers but does not interact with Desmin. SMTNL2 (smoothelin-like 2), also known as FLJ42461, MGC131847 or MGC138382, is a 461 amino acid protein belonging to the smoothelin family. Containing a single CH (calponin-homology) domain, SMTNL2 is considered an Actin binding protein. SMTNL2 exists as two isoforms produced by alternative splicing events and is encoded by a gene mapping to human chromosome 17. Human chromosome 17 comprises over 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, though specifically it is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes.

Overview

Product Name	Anti-SMTNL2 Antibody Picoband® Fluoro488 Conjugated
Reactive Species	Human
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% Na ₃ 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	Q2TAL5

Technical Details

Immunogen	E.coli-derived human SMTNL2 recombinant protein (Position: M1-K440). Human SMTNL2 shares 83.2% amino acid (aa) sequence identity with mouse SMTNL2.
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.

Conjugate	Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

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