

Datasheet for ABIN7602377

**anti-Smoothelin antibody (AA 72-881)**[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	Smoothelin (SMTN)
Binding Specificity:	AA 72-881
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Smoothelin antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), ELISA, Immunofluorescence (IF)

## Product Details

Purpose:	Anti-SMTN Antibody Picoband®
Immunogen:	E.coli-derived human SMTN recombinant protein (Position: E72-D881).
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Anti-SMTN Antibody Picoband® (ABIN7601886). Tested in WB, ICC/IF, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

## Target Details

Target:	Smoothelin (SMTN)
Alternative Name:	SMTN ( <a href="#">SMTN Products</a> )
Background:	<p>Synonyms: 70 kDa ribosomal protein S6 kinase 1 antibody, KS6B1_HUMAN antibody, p70 alpha antibody, P70 beta 1 antibody, p70 ribosomal S6 kinase alpha antibody, p70 ribosomal S6 kinase beta 1 antibody, p70 S6 kinase alpha antibody, P70 S6 Kinase antibody, p70 S6 kinase alpha 1 antibody, p70 S6 kinase alpha 2 antibody, p70 S6K antibody, p70 S6K-alpha antibody, p70 S6KA antibody, p70(S6K) alpha antibody, p70(S6K)-alpha antibody, p70-alpha antibody, p70-S6K 1 antibody, p70-S6K antibody, P70S6K antibody, P70S6K1 antibody, p70S6Kb antibody, PS6K antibody, Ribosomal protein S6 kinase 70 kDa polypeptide 1 antibody, Ribosomal protein S6 kinase beta 1 antibody, Ribosomal protein S6 kinase beta-1 antibody, Ribosomal protein S6 kinase I antibody, RPS6KB1 antibody, S6K antibody, S6K-beta-1 antibody, S6K1 antibody, Serine/threonine kinase 14 alpha antibody, Serine/threonine-protein kinase 14A antibody, STK14A antibody</p> <p>Tissue Specificity: Expressed in all tissues.</p> <p>Background: Smoothelin is a protein that in humans is encoded by the SMTN gene. This gene encodes a structural protein that is found exclusively in contractile smooth muscle cells. It associates with stress fibers and constitutes part of the cytoskeleton. This gene is localized to chromosome 22q12.3, distal to the TUPLE1 locus and outside the DiGeorge syndrome deletion. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms.</p>
Molecular Weight:	120 kDa
Gene ID:	6525
UniProt:	<a href="#">P53814</a>

## Application Details

Application Notes:	<p>Western blot, 0.1-0.25 µg/mL, Human, Mouse, Rat</p> <p>Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Engelen, J. J. M., Esterling, L. E., Albrechts, J. C. M., Detera-Wadleigh, S. D., van Eys, G. J. J. M. Assignment of the human gene for smoothelin (SMTN) to chromosome 22q12 by fluorescence in situ hybridization and radiation hybrid mapping. Genomics 43: 245-247, 1997. 2. Rensen, S., Merks, G., Doevendans, P., Geurts van Kessel, A., van Eys, G. Structure and chromosome location of Smtn, the mouse smoothelin gene. Cytogenet. Cell Genet. 89: 225-229, 2000. 3. van</p>
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Application Details

der Loop, F. T. L., Schaart, G., Timmer, E. D. J., Ramaekers, F. C. S., van Eys, G. J. J. M.  
Smoothelin, a novel cytoskeletal protein specific for smooth muscle cells. J. Cell Biol. 134: 401-411, 1996.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.