



Mouse Anti-Human Smoothelin monoclonal antibody, clone JID774 (CABT-L2784)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
Specificity	Human Smoothelin
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	JID774
Conjugate	Unconjugated
Applications	IHC
Reconstitution	The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.
Positive Control	Bladder
Format	Liquid
Size	Predilute: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml
Buffer	Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA

Preservative	< 0.1% Sodium Azide
Storage	Store at 2-8°C. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	Smoothelin is a protein found explicitly in the cytoskeletal component of differentiated (contractile) smooth muscle cells, while being absent from myofibroblasts and myoepithelial cells, as well as skeletal and cardiac muscle. Overexpression of smoothelin is characteristic of muscularis propria, and Anti-Smoothelin is often used for distinguishing this condition from muscularis mucosae, which typically stains negative or weakly positive for the smoothelin protein. Anti-Smoothelin is also useful in differentiating benign smooth muscle tumors from malignant smooth muscle tumors.
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Keywords	SMTN;smoothelin;
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GENE INFORMATION

Gene Name	SMTN smoothelin [Homo sapiens (human)]
Official Symbol	SMTN
Synonyms	SMTN; smoothelin;
Entrez Gene ID	6525
Protein Refseq	NP_001193946
UniProt ID	A0A087X1R1
Chromosome Location	22q12.2
Function	actin binding; structural constituent of muscle;