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Smoothelin Rabbit pAb

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Catalog # AP55264

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P53814
Reactivity	Rat, Human
Predicted	Pig, Orangutan, Mouse, Rabbit, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	99059
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Smoothelin
Epitope Specificity	851-917/917
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm > cytoskeleton. Exhibits a filamentous organization.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. At least two isoforms of smoothelin are produced by alternative splicing. The short isoform lacks amino acids 1–544 at the amino-terminus of the long isoform. The short isoform is expressed in visceral muscle tissue, including intestine and stomach, but not in brain, while the long isoform is expressed in all vascularized organs. In the vascular system, smoothelin expression is limited to large veins and arteries capable of pulsatile contraction. As a marker for the highly differentiated contractile smooth muscle cell, smoothelin expression is useful for studying vascular malformation and injury. The gene encoding human smoothelin maps to chromosome 22q12.2.

Additional Information

Gene ID	6525
Other Names	Smoothelin, SMTN, SMSMO
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

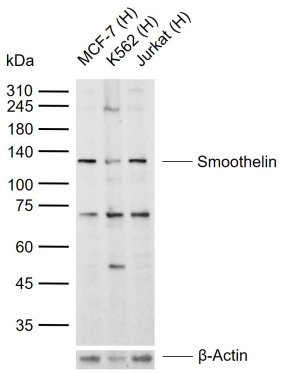
Protein Information

Name	SMTN
Synonyms	SMSMO
Function	Structural protein of the cytoskeleton.
Cellular Location	Cytoplasm, cytoskeleton. Note=Exhibits a filamentous organization
Tissue Location	Smooth muscle; contractile or vascular (for the long form)

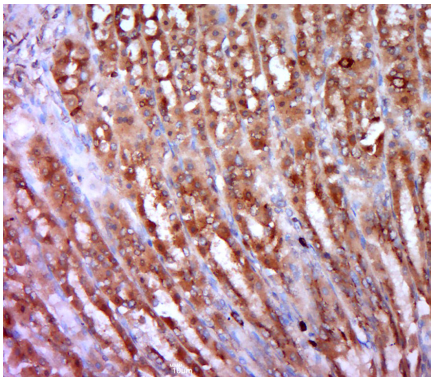
Background

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Images



Sample:
Lane 1: Human MCF-7 cell lysates
Lane 2: Human K562 cell lysates
Lane 3: Human Jurkat cell lysates
Primary: Anti-Smoothelin (AP55264) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 100 kDa
Observed band size: 115 kDa



Paraformaldehyde-fixed, paraffin embedded (rat stomach tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Smoothelin) Polyclonal Antibody, Unconjugated (AP55264) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.