

bs-13740R**[Primary Antibody]**

Smoothelin Rabbit pAb

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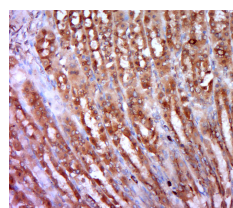
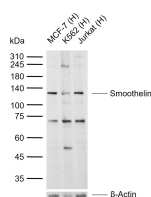
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— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		IHC-P (1:100-500)
GeneID: 6525	SWISS: P53814	IHC-F (1:100-500)
Target: Smoothelin		IF (1:100-500)
Immunogen: KLH conjugated synthetic peptide derived from human Smoothelin: 851-917/917.		Reactivity: Human, Rat (predicted: Mouse, Rabbit, Pig, Cow, Dog, Orangutan)
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		Predicted MW.: 100 kDa
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		Subcellular Location: Cytoplasm
Background: 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.		

— VALIDATION IMAGES —



Sample: Lane 1: Human MCF-7 cell lysates Lane 2: Human K562 cell lysates Lane 3: Human Jurkat cell lysates Primary: Anti-Smoothelin (bs-13740R) 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 (bs-13740R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

— SELECTED CITATIONS —

- **[IF=5.4]** Guoyong Zhang. et al. Buyang Huanwu Decoction suppresses cardiac inflammation and fibrosis in mice after myocardial infarction through inhibition of the TLR4 signalling pathway. J ETHNOPHARMACOL. 2023 Nov;;117388 IF ;Rat. 37949329

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=0.939]** Prayitnaningsih et al. Neuropathy optic glaucomatosa induced by systemic hypertension through activation endothelin-1 signaling pathway in central retinal artery in rats. (2016) Int.J.Ophthalmol. 9:1568-1577 IF ;Rat. 27990358