

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Smoothelin B in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 885424
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Smoothelin B Met1-Leu132 Accession # P53814
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	HASMC human aortic smooth muscle cells

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Smoothelin (SMTN) is a cytoskeletal protein associated with stress fibers. It is 917 amino acids (aa) in length and shares 77% and 82% aa identity with mouse and rat SMTN. SMTN has two major isoforms, A and B with reported molecular weights of approximately 59 and 110 kDa, respectively. Isoform A is associated with visceral smooth muscle cells while isoform B is specific to vascular smooth muscle. Loss of SMTN has been associated with defects in intestinal smooth muscle cell contraction as well as increased arterial pressure and cardiac hypertrophy.

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