

SMTN

Mouse Anti-Human Smoothelin (Clone R4A) mAb

Catalog No. MON2094 **Quantity:** 100 ug

Description: Smoothelin is a constituent of the smooth muscle cell (SMC) cytoskeleton. Antibodies directed to smoothelin are useful tools to monitor SMC differentiation. Smoothelin is exclusively expressed in fully differentiated (contractile) SMCs. RNA and protein analyses revealed a broad species distribution of this protein. Smoothelin has also been detected in smooth-muscle neoplasms. Cells with SMC-like characteristics, such as myofibroblasts and myoepithelial cells, as well as skeletal and cardiac muscle do not contain smoothelin. Confocal scanning laser microscopy of tissue sections and cells in culture show a filamentous organization of smoothelin colocalizing with actin stress fibers. In immunoblots two molecular weight isoforms are detected i.e. a 59 kDa isoform specific for visceral SMC (smoothelin A), and an isoform with a molecular weight of approximately 100 kDa in vascular SMC (smoothelin B). Human smoothelin is encoded by a single copy gene which is located on chromosome 22

Concentration: 0.1 mg/ml

UniProt ID: P53814

Specificity: Smoothelin

Host: Mouse

Immunogen: Cytoskeletal extract of Chicken gizzard

Isotype: IgG1

Clone: R4A

Formulation: PBS containing 0.09% sodium azide

Applications: IHC

Storage & Stability: Store at 2-8°C for up to 1 year.

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