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Rat Aortic Smooth Muscle Cells: RAOSMC

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Description

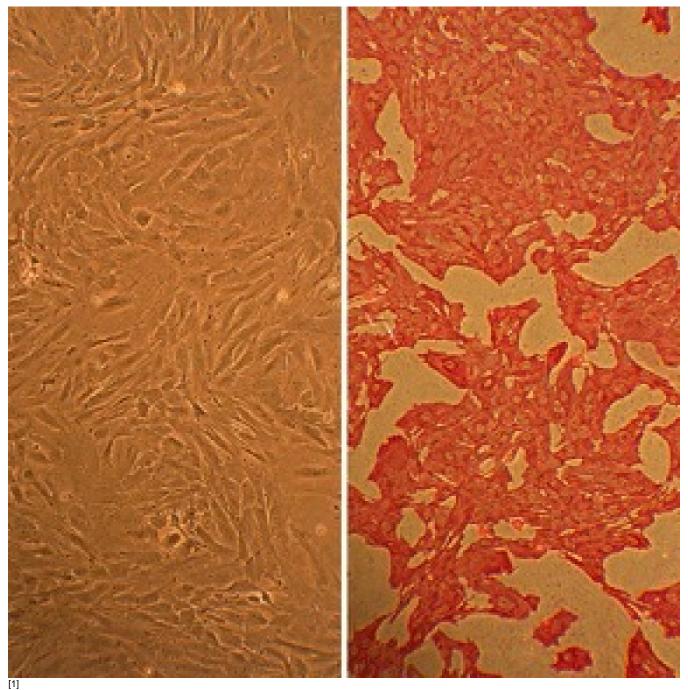
Rat Aortic Smooth Muscle Cells (RAOSMC) provide an excellent model system to study all aspects of cardiovascular function and disease, especially those related to mechanisms of hyperplasia and hypertrophy of intimal smooth muscle cells leading to vascular occlusion in atherosclerosis and stent restenosis.

RAOSMC from Cell Applications, Inc. have been utilized in dozens of research studies to:

- Provide a gold standard control for smooth muscle markers ?-SMA, calponin and caldesmon expression
- Elucidate cytokines and growth factors signaling pathways implicated in the molecular regulation of smooth muscle cell proliferation, migration, and overall vascular function
- Demonstrate that peach extract inhibits intracellular Ca²⁺ and reactive oxygen species, showing promise to prevent cardiovascular diseases
- Investigate extracellular matrix properties and its role in cardiovascular health, repair of damaged vasculature and successful tissue engineering
- Demonstrate that hyperglycemia-induced elastin degradation products lead to vascular smooth muscle cell calcification
- Identify periostin, also implicated in mechanical stress and inflammation responses, as an early marker for SMC calcification

• Develop advanced stent technology, including novel surface materials, and drug delivery systems to prevent restenosis and other occlusive vasculopathies

Characterization: positive for smooth muscle cell specific alpha-actin expression



(Click to Enlarge) Rat Aortic Smooth Muscle Cells: RAOSMC (L), immunolabeled for smooth muscle-specific alpha-actin using the ABC method (R).

Details

Tissue Normal healthy adult rat aorta

QC No bacteria, yeast, fungi, mycoplasma

Character Smooth muscle specific ?-actin positive

Bioassay Attach, spread, proliferate in Growth Med

Cryovial 500,000 RAOSMC (2nd passage) frozen in Basal Medium w/ 10%

FBS, 10% DMSO

Kit Cryovial frozen RAOSMC (R354-05a), Grwth Med (R311-500),

Subcltr Rgnt Kit (090K)

Proliferating Shipped in Gr Med, 3rd psg (flasks or plates)

Doublings At least 16

Applications Laboratory research use only (RUO). Not for human, clinical,

diagnostic or veterinary use.

Instructions RAOSMC

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