

Product Description

Smooth muscle cells (SMC) are primary contributors to the development of arterial disease [1]. The ability of vascular SMC to switch to a proliferative phenotype is one of the main factors in the development and progression of vascular disease. Recent studies have demonstrated that SMC express calcium channels [2], ICAM-1, and VCAM-1. The expression of ICAM-1 and VCAM-1 on SMC may contribute to the inflammatory reaction in the vascular wall and may actively be involved in the progression of vascular disease [3]. Vascular SMC in culture play an important role in vascular disease research and can be used to identify new therapeutic targets to treat arterial disease.

iXCells Biotechnologies provides high quality RASMC, which are isolated from rat aorta and cryopreserved at P2, with >0.5 million cells in each vial. RASMC express \pm -smooth muscle actin and desmin. They are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi and can further expand for 5 population doublings in Smooth Muscle Cell Growth Medium (Cat# MD-0034) under the condition suggested by iXCells Biotechnologies.

Product Details

Tissue	Rat aorta
Package Size	0.5x10 ⁶ cells/vial
Passage Number	P2
Shipped	Cryopreserved
Storage	Liquid nitrogen
Growth Properties	Adherent
Media	Smooth Muscle Cell Growth Medium (Cat# MD-0034)

References

- [1] Schwartz, S. M., Campbell, G. R., Campbell, J. H. (1986) Replication of smooth muscle cells in vascular disease. *Circ. Res.* 58:427-444.
- [2] Fan, Q. I., Vanderpool, K., Marsh, J. D. (2002) A 27 bp cis-acting sequence is essential for L-type calcium channel alpha(1C) subunit expression in vascular smooth muscle cells. *Biochim Biophys Acta.* 1577:401-11.
- [3] Braun, M., Pietsch, P., Schror, K., Baumann, G., Felix, S. B. (1999) Cellular adhesion molecules on vascular smooth muscle cells. *Cardiovasc. Res.* 41:395-401.

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura,
 Delhi – 110034 (INDIA).

Mobile: +91-9810521400, Ph: +91-11-42208000

Email: customerservice@lifetechindia.com

Web: www.lifetechindia.com