SANTA CRUZ BIOTECHNOLOGY, INC.

Vascular Endothelium (10): sc-53461

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The Vascular Endothelium has a big role in the regulation of vascular tone, hemostasis, immune and inflammatory responses. It has been known to be key in the regulation of smooth muscle function and in modulating leukocyte and platelet adhesion to the endothelium. Vascular endothelial cells can differentiate from common myeloid progenitors and granulocyte/macrophage progenitors.

REFERENCES

1. Palmer, D.G., Selvendran, Y., Allen, C., Revell, P.A. and Hogg, N. 1985. Features of synovial membrane identified with monoclonal antibodies. Clin. Exp. Immunol. 59: 529-538.
2. Berkenboom, G. 2003. Vascular Endothelium: target organ of cardiovascular pathologies. Ann. Cardiol. Angeiol. 48: 643-646.
3. Izumi, K., Ishikawa, K., Shiroshita, H., Matsui, Y., Shiraishi, N. and Kitano, S. 2005. Morphological changes in hepatic Vascular Endothelium after carbon dioxide pneumoperitoneum in a murine model. Surg. Endosc. 19: 554-558.
4. Bailey, A.S., Willenbring, H., Jiang, S. Anderson, D.A., Schroeder, D.A., Wong, M.H., Grompe, M. and Fleming, W.H. 2006. Myeloid lineage progenitors give rise to Vascular Endothelium. Proc. Natl. Acad. Sci. USA 103: 13156-13161.
5. Busse, R. and Fleming, I. 2006. Vascular Endothelium and blood flow. Handb. Exp. Pharmacol. 176: 43-78.
6. Egan, K. and FitzGerald, G.A. 2006. Eicosanoids and the Vascular Endothelium. Handb. Exp. Pharmacol. 176: 189-211.
7. Moncada, S. and Higgs, E.A. 2006. Nitric oxide and the Vascular Endothelium. Handb. Exp. Pharmacol. 176: 213-254.
8. Gong, R., Rifai, A. and Dworkin, L.D. 2006. Anti-inflammatory effect of hepatocyte growth factor in chronic kidney disease: targeting the inflamed Vascular Endothelium. J. Am. Soc. of Nephrol. 17: 2464-2473.
9. Prozialeck, W.C., Edwards, J.R. and Woods, J.M. 2006. The Vascular Endothelium as a target of cadmium toxicity. Life Sci. 79: 1493-1506.

SOURCE

Vascular Endothelium (10) is a mouse monoclonal antibody raised against Fibronectin-purified monocytes of human origin.

PRODUCT

Each vial contains 200 µg IgM kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

APPLICATIONS

Vascular Endothelium (10) is recommended for detection of Vascular Endothelium of human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 2) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

RESEARCH USE

For research use only, not for use in diagnostic procedures.