abcam

Product datasheet

Angiogenesis Assay Kit (In Vitro) ab204726

27 References 画像数 2

製品の概要

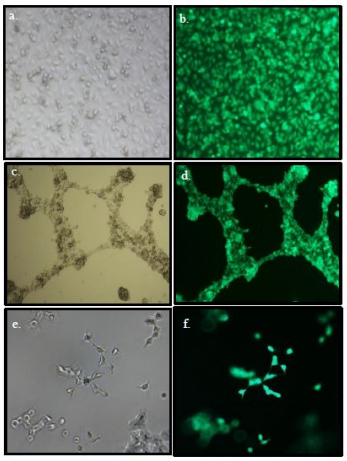
製品名	Angiogenesis Assay Kit (In Vitro)
検出方法	Fluorescent
アッセイタイプ	Cell-based (qualitative)
全工程の試験時間	6h 00m
製品の概要	Angiogenesis Assay Kit ab204726 provides a quick and robust method to measure the ability of endothelial cells to from three-dimensional tube-like structures *in vitro* in less than 18 hours. This tube formation assay provides a simple, easy to perform, qualitative tool for assessing angiogenesis. Angiogenesis assay protocol summary: - add extracellular matrix solution to empty culture plate and incubate for 1 hr at 37ºC to allow the solution to form a gel - plate cells onto the gel and add experimental treatment - incubate cells for 4-18 hrs to allow tube formation - remove incubation medium and wash cells / gel - add staining dye and incubate for 30 min - examine tube formation using light and fluorescence microscopy (green filter)
特記事項	This product is manufactured by BioVision, an Abcam company and was previously called K905 Angiogenesis (Tube Formation) Assay. K905-50 is the same size as the 50 test size of ab204726. Angiogenesis is a physiological process that occurs during wound healing and normal development which involves the growth of new blood vessels from pre-existing vessels. These blood vessels form highly branched, tree-like tubular networks that ensure efficient and simultaneous transport of gases, liquids, nutrients, signaling molecules, and circulating cells between tissues and organs. Angiogenesis is complex and highly regulated, with tight coordination of cell proliferation, differentiation, migration, matrix adhesion, and cell-to-cell signaling. Angiogenesis is regulated by several factors, most importantly growth factors such as vascular endothelial growth factors (VEGFs) and platelet-derived growth factors (PDGFs).
試験プラットフォーム	Fluorescence microscope

製品の特性

保存方法 Store at -20°C. Please refer to protocols.

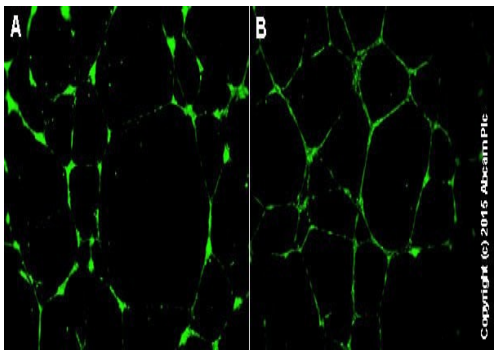
内容	50 tests
Extracellular Matrix Solution	2 x 1.25ml
Inhibitor (Suramin)	1 vial
Staining Dye Concentrate	1 x 25µl
Wash Buffer III	1 x 10ml

画像



Endothelial Cell (EA.hy926 Cells) Tube Formation

Phase contrast (a, c, e) and fluorescent images (b, d, f) of endothelial cells in a tissue culture plate. (a, b) Endothelial cells grown without the Extracellular Matrix Gel, (c, d) Tube formation of endothelial cells grown on Extracellular Matrix gel. (e, f) endothelial cells grown on Extracellular Matrix gel treated with Suramin (10 µmol/L). Images were taken using Nikon TE2000 microscope.



ab204726

HUVEC morphogenesis on Extracellular Matrix Gel. Cells (2 × 104) were plated per 1 cm2 well precoated with Extracellular Matrix Gel and grown for 18 hours (A) in the specific medium alone (positive control) or containing (B) PMA 10 µmol/L.

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