



Mouse Angiogenesis ELISA Strip for Profiling 8 Cytokines (For Research Use Only)

Catalog Number EA-1021

Introduction

Angiogenesis shifted from the avascular to vascular state is a key event for sustained tumor growth and cancer progression. Angiogenesis as a biological switch process is governed by numerous pro- and anti-angiogenic factors, including vascular endothelial growth factor (VEGF), basic fibroblast growth factor (FGFb), epidermal growth factor (EGF), and IL-6. The mechanism of action of each of these factors is different, as are their origin and the stimuli for their production. The angiogenic switch refers to the balance between pro- and anti-angiogenic factors. Therefore, profiling of these factors is critical to understanding angiogenesis. Signosis' Mouse Angiogenesis ELISA Strip Profiling Assay simultaneously profile 8 mouse angiogenesis cytokines; TNFa, IGF-1, VEGF, IL-6, FGFb, IFNr, EGF, and Leptin. The difference of these proteins between two samples can be determined through data comparison.

Principle of the assay

In each well of the strip, a primary antibody against a specific angiogenesis cytokine is coated and 8 wells of the strip are coated with 8 different antibodies. Therefore, total 8 wells of a strip allow measurement of 8 different cytokines. The test sample is allowed to react simultaneously with pairs of two antibodies, resulting in the angiogenesis cytokines being sandwiched between the solid phase and enzyme-linked antibodies. After incubation, the wells are washed to remove unbound-labeled antibodies. A HRP substrate, TMB, is then added to result in the development of a blue color. The color development is then stopped with the addition of Stop Solution, resulting in a color change to yellow. The concentrations of the angiogenesis cytokines are directly proportional to the color intensity of the test sample. Absorbance is measured spectrophotometrically at 450 nm. The expression levels of these cytokines can be quantitatively compared between samples.

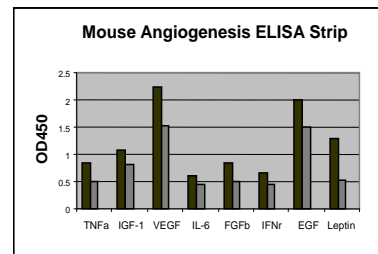
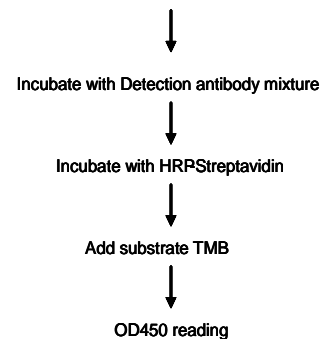
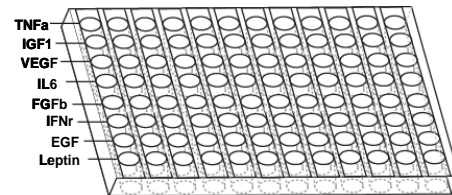


Diagram of Mouse Angiogenesis ELISA Strip

Materials provided with the kit

Component	Qty	Store at
12 strips, each coated with 8 different antibodies against mouse angiogenesis cytokines	1	4°C
Biotin-labeled antibody mixture against 8 different mouse angiogenesis cytokines	200µL	-20°C
Streptavidin-HRP conjugate	50µL	4°C
1xDiluent buffer	40mL	4°C
5X Assay wash buffer	40mL	4°C
Substrate	10mL	4°C
Stop solution	5mL	RT

