

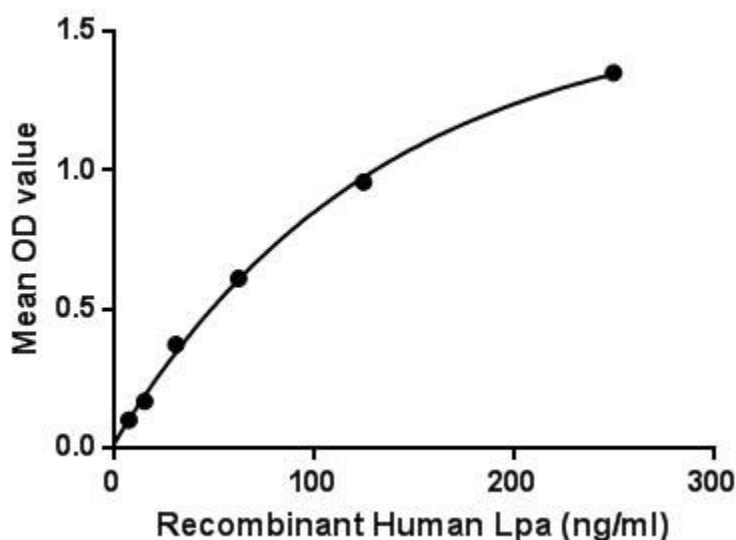
Active Lipoprotein, a (Lpa) Instruction Manual

SBPA192Hu01

Homo sapiens (Human)

Buffer Formulation	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Traits	Freeze-dried powder
Purity	> 95%
Isoelectric Point	8.4
Applications	Cell culture; Activity Assays.

ACTIVITY TEST



Lipoprotein, a (Lpa) is a lipoprotein subclass. Lpa is assembled at the hepatocyte cell membrane surface, while other scenarios exist with regard to the location of assembly. It mainly exists in plasma. Lpa contributes to the process of atherogenesis. It also may enhance coagulation by inhibiting the function of tissue factor pathway inhibitor. Lpa carries cholesterol and binds atherogenic proinflammatory oxidized phospholipids as a preferential carrier of oxidized phospholipids in human plasma, which attract inflammatory cells to vessel walls and leads to smooth muscle cell proliferation. Moreover, Lpa also is hypothesized to be involved in wound healing and tissue repair, interacting with components of the vascular wall and extra cellular matrix. Besides, Fibronectin (FN) has been identified as an interactor of Lpa, thus a binding ELISA assay was conducted to detect the interaction of recombinant human Lpa and recombinant

human FN. Briefly, Lpa were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 μ L were then transferred to FN-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-Lpa pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 μ L stop solution to the wells and read at 450nm immediately. The binding activity of Lpa and FN was shown in Figure 1, and this effect was in a dose dependent manner. Figure. The binding activity of Lpa with FN.

USAGE

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

STORAGE

Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

STABILITY

The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Image

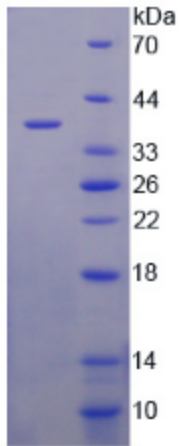


Figure. SDS-PAGE

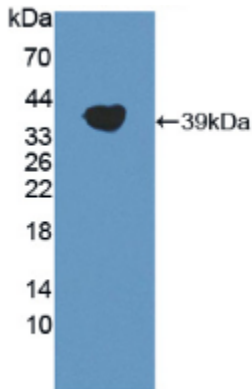


Figure. Western Blot

[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.