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Product Datasheet

Human LPA protein, His tag, Unconjugated
GTX00272-PRO

Article Name	Human LPA protein, His tag, Unconjugated
Biozol Catalog Number	GTX00272-PRO
Supplier Catalog Number	GTX00272-pro
Alternative Catalog Number	GTX00272-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	4018
UniProt	P08519
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Asp1719~Arg2038

Application Notes	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 µl were then transferred to FN-coated microtiter wells and incubated for 2h at 37C. 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 37C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of Lpa and FN was in a dose dependent manner.