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Product Datasheet

Human LBP protein, His tag, Unconjugated GTX00248-PRO

Article Name	Human LBP protein, His tag, Unconjugated
Biozol Catalog Number	GTX00248-PRO
Supplier Catalog Number	GTX00248-pro
Alternative Catalog Number	GTX00248-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	3929
UniProt	P18428
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, Asn27~Val481 (NP_004130.2)

Application Notes

Lipopolysaccharide Binding Protein (LBP) is a soluble acute-phase protein that binds to bacterial lipopolysaccharide (or LPS) to elicit immune responses by presenting the LPS to important cell surface pattern recognition receptors called CD14 and TLR4. The protein encoded by this gene is involved in the acute-phase immunologic response to gram-negative bacterial infections. This protein is part of a family of structurally and functionally related proteins, including BPI, plasma cholesteryl ester transfer protein (CETP), and phospholipid transfer protein (PLTP). Besides, Cluster Of Differentiation 14 (CD14) has been identified as an interactor of LBP, thus a binding ELISA assay was conducted to detect the interaction of recombinant human LBP and recombinant human CD14. Briefly, LBP were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to CD14-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-LBP 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 LBP and CD14 was in a dose dependent manner.