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Product Datasheet

Human MBL2 protein, His and GST tag, Unconjugated GTX00127-PRO

Article Name	Human MBL2 protein, His and GST tag, Unconjugated
Biozol Catalog Number	GTX00127-PRO
Supplier Catalog Number	GTX00127-pro
Alternative Catalog Number	GTX00127-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	4153
UniProt	P11226
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 and GST-Tag, Leu130~Ile248 (NP_000233.1)

Application Notes

MBL2 (Mannose-binding protein C) is a calcium-dependent lectin involved in innate immune defense, which binds mannose, fucose and N-acetylglucosamine on different microorganisms, therefore results in activation of the lectin pathway of the complement system. It has been proven that MASP-2 (Mannan-binding lectin serine protease 2) forms complexes with the pattern recognition molecules MBL2, triggers the activation of the complement system. Thus, a functional binding ELISA assay was constructed to detect the association of rhMBL2 with MASP2. Briefly, rhMBL2 were diluted serially in 10mM Tris-HCl, 1M NaCl, 5mM CaCl₂, and 0.05% Triton X-100 (pH 7.4). Duplicate samples of 100 µl were then transferred to MASP2-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-MBL2 mAb, then aspirated and washed 3 times. After incubation with HRP labeled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated for 15-25 minutes at 37°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately.

The binding activity of MBL2 with MASP2 was in a dose dependent manner.