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## Product Datasheet

### Human MASP2 protein, His tag, Unconjugated GTX00122-PRO

Article Name	Human MASP2 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00122-PRO
Supplier Catalog Number	GTX00122-pro
Alternative Catalog Number	GTX00122-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	<a href="#">10747</a>
UniProt	<a href="#">O00187</a>
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, Ile445~Ile683 (NP_006601.2)

## Application Notes

MASP2 (Mannan-binding lectin serine protease 2) is a serum protease that plays an important role in the activation of the complement system via mannose-binding lectin. The preproprotein of MASP2 is proteolytically processed to generate A and B chains that heterodimerize to form the mature protease, which is able to associate with MBL2. Thus, a functional binding ELISA assay was constructed to detect the association of rhMASP2 with MBL2. Briefly, rhMASP-2 were diluted serially in 10mM Tris-HCl, 1M NaCl, 5mM CaCl<sub>2</sub>, and 0.05% Triton X-100 (pH 7.4). Duplicate samples of 100  $\mu$ l were then transferred to MBL2-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-MASP-2 pAb, 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  $\mu$ l stop solution to the wells and read at 450nm immediately. The binding activity of MASP2 with MBL2 was in a dose dependent manner.