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Product Datasheet

Human CD66e protein, His tag, Unconjugated GTX00181-PRO

Article Name	Human CD66e protein, His tag, Unconjugated
Biozol Catalog Number	GTX00181-PRO
Supplier Catalog Number	GTX00181-pro
Alternative Catalog Number	GTX00181-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	1048
UniProt	P06731
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, Ala566~Gly698 (NP_001278413.1)

Application Notes

Carcinoembryonic antigen (CEA) which are characterized as members of the CD66 cluster of differentiation have highly related glycoproteins involved in cell adhesion. It also can be used as a tumor marker in clinical tests. CEA are glycosyl phosphatidyl inositol (GPI) cell-surface-anchored glycoproteins whose specialized sialofucosylated glycoforms serve as functional colon carcinoma L-selectin and E-selectin ligands. Besides, Galectin 4 (GAL4) has been identified as an interactor of CEA, thus a binding ELISA assay was conducted to detect the interaction of recombinant human CEA and recombinant human GLA4. Briefly, CEA were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to GLA4-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-CEA 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 CEA and GLA4 was in a dose dependent manner.