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Product Datasheet

Human Galectin 9 protein, His tag, Unconjugated GTX00111-PRO

Article Name	Human Galectin 9 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00111-PRO
Supplier Catalog Number	GTX00111-pro
Alternative Catalog Number	GTX00111-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Immunogen	Met1~Thr323
Conjugation	Unconjugated
NCBI	3965
UniProt	O00182
Buffer	Batch dependent (please contact us for details)
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Met1~Thr355 (NP_001317092.1)

Application Notes

GAL9 (Galectin-9) belongs to the galectin family, which is defined by their binding specificity for beta-galactoside sugars, such as N-acetyllactosamine (Galbeta1-3GlcNAc or Galbeta1-4GlcNAc). It is reported that GAL9 induces T-helper type 1 lymphocyte (Th1) death by binding to HAVCR2 (Hepatitis A virus cellular receptor 2), besides, the interaction between GAL9 and PDI (Protein disulfide-isomerase) leads to disulfide reductase activity increasing at the plasma membrane, therefore alters the plasma membrane redox state and enhances cell migration. Thus a binding ELISA assay was conducted to detect the interaction of recombinant human GAL9 with recombinant human HAVCR2 and recombinant human PDI separately. Briefly, GAL9 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to HAVCR2-coated and PDI-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-GAL9 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 GAL9 with HAVCR2 and PDI were shown in images, and this effect was in a dose dependent manner.