

Human HMGB1 protein, His tag

Cat. No. GTX00153-pro

Applications Functional Assay**Species** Human**Package**

10 µg

Applications

Application Note

High Mobility Group Protein 1 (HMGB1) is among the most important chromatin proteins. In the nucleus HMGB1 interacts with nucleosomes, transcription factors, and histones. This nuclear protein organizes the DNA and regulates transcription. Besides, Stromal Cell Derived Factor 1 (SDF1) has been identified as an interactor of HMGB1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human HMGB1 and recombinant human SDF1. Briefly, HMGB1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to SDF1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-HMGB1 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 37°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of HMGB1 and SDF1 was in a dose dependent manner.

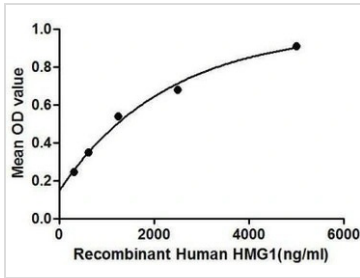
Observed MW (kDa) 22 kDa.

Properties

Form Lyophilized powder**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.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Pro9~Arg163 (NP_001300821.1)**Expression System** E. coli**Purity** > 95%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

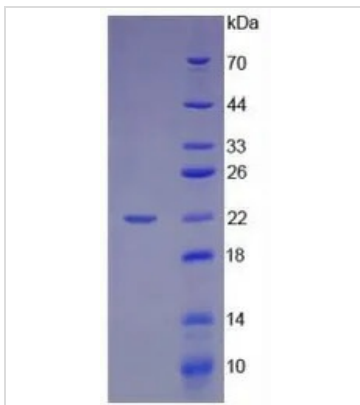
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DATA IMAGES



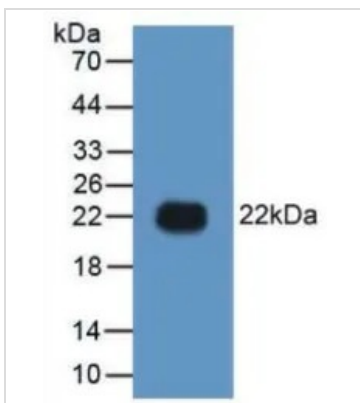
GTX00153-pro Functional Assay Image

Functional ELISA analysis of GTX00153-pro Human HMGB1 protein which can bind immobilized SDF1 protein.



GTX00153-pro Image

SDS-PAGE analysis of GTX00153-pro Human HMGB1 protein.



GTX00153-pro Image

WB analysis of GTX00153-pro Human HMGB1 protein.



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