

Human S100A6 protein, His tag

Cat. No. GTX00135-pro

Applications Functional Assay

Species Human

Package

10 µg

Applications

Application Note

S100A6 is a calcium-binding protein, which functions as calcium sensor and modulator, contributing to cellular calcium signaling. It is reported that S100B and S100A6 differentially modulate cell survival by interacting with distinct RAGE (Receptor for Advanced Glycation End Products). Thus a binding ELISA assay was conducted to detect the interaction of S100A6 and RAGE. Briefly, recombinant human S100A6 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to RAGE-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-S100A6 mAb, 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 S100A6 and RAGE was in a dose dependent manner.

Observed MW (kDa) 16 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 Full length protein, N-terminal His-Tag; Met1~Gly90 (NP_055439.1)

Expression System E. coli

Purity > 90%

Endotoxin < 1 EU/µg

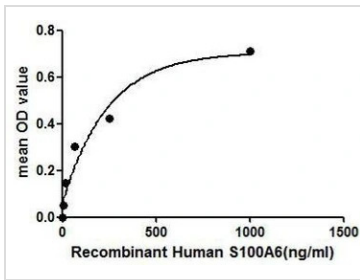
Conjugation Unconjugated

Note For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



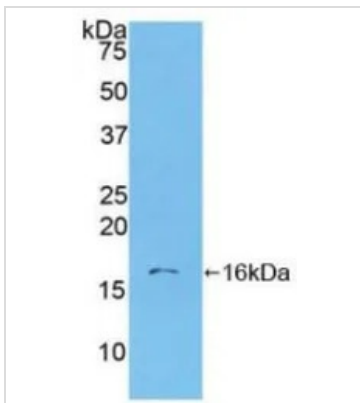
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DATA IMAGES



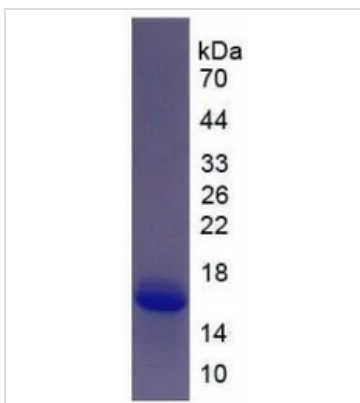
GTx00135-pro Functional Assay Image

Functional ELISA analysis of GTx00135-pro Human S100A6 protein which can bind immobilized RAGE protein.



GTx00135-pro Image

WB analysis of GTx00135-pro Human S100A6 protein.



GTx00135-pro Image

SDS-PAGE analysis of GTx00135-pro Human S100A6 protein.



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