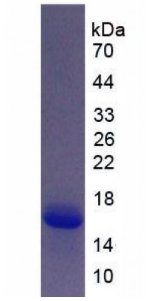
Abbexa Ltd, Innovation Centre, Cambridge Science Park, Cambridge, CB4 0EY, UK
Telephone: +44 (0) 1223 755950 - Fax: +44 (0) 1223 755951 - E-Mail: info@abbexa.com

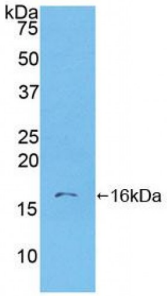
DATASHEET

Human S100 Calcium Binding Protein A6 (S100A6) Protein (Active)

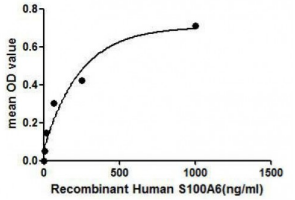
Catalogue No.:abx651436



SDS-PAGE analysis of active recombinant Human S100A6.



Western blot analysis of recombinant Human S100A6, using Rabbit Anti-Human S100A8 antibody (abx103525).



Binding activity of S100A6 with RAGE (see Biological Activity section).

S100 Calcium Binding Protein A6 (S100A6) Protein (Active) is an active protein from Human.

Target:	S100 Calcium Binding Protein A6 (S100A6)
Origin:	Human
Host:	E. coli
Tested Applications:	SDS-PAGE, WB
Purity:	> 92%
Form:	Lyophilized
Reconstitution:	Reconstitute in 20 mM Tris, 150 mM NaCl, pH 8.0, to a concentration of 0.1-1.0 mg/ml. Do not vortex.

Abbexa Ltd, Innovation Centre, Cambridge Science Park, Cambridge, CB4 0EY, UK
Telephone: +44 (0) 1223 755950 - Fax: +44 (0) 1223 755951 - E-Mail: info@abbexa.com

DATASHEET

Conjugation: Unconjugated

Storage: Store at 2-8 °C for up to one month. Store at -80 °C for up to one year. Avoid repeated freeze/thaw cycles.

Expression: Recombinant

Molecular Weight: 16.9 kDa (Predicted Molecular Mass), 16 kDa (Accurate Molecular Mass)

Swiss Prot: P06703

Sequence Fragment: Met1-Gly90

Sequence: MACPLDQAIG LLVAIFHKYS GREGDKHTLS KKELKELIQK ELTIGSKLQD AEIARLMEDL DRNKDQEVNF QEYVTFLGAL ALIYNEALKG

Tag: N-terminal His-tag

Activity: Active

Biological Activity: Human S100 Calcium Binding Protein A6 (S100A6) is a calcium-binding protein that 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 RAGE (Receptor for Advanced Glycation End Products, also known as AGER). Therefore a binding ELISA assay was conducted to detect the interaction of S100A6 and RAGE. Briefly, S100A6 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to RAGE-coated microplate wells and incubated for 2 h at 37°C. Wells were washed with PBST and incubated for 1 h with anti-S100A6 monoclonal antibody, then aspirated and washed 3 times. After incubation with HRP-conjugated secondary antibody, wells were aspirated and washed 3 times. TMB substrate solution was added and wells were incubated for 15-25 minutes at 37 °C. Finally, 50 µl stop solution was added to the wells and the absorbance was read at 450 nm immediately. The binding activity of S100A6 and RAGE is shown in Figure 3.

Buffer: Prior to lyophilization: 20 mM Tris, 150 mM NaCl, pH 8.0, containing 0.01% Sarcosyl, 5% Trehalose.

Note: This product is for research use only.