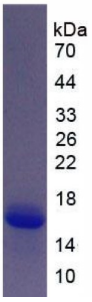
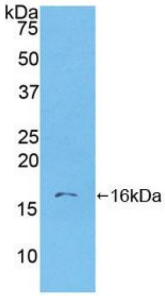
Human S100 Calcium Binding Protein A6 (S100A6) Protein (Active)

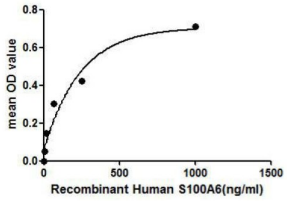
Catalogue No.:abx651436



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
Expression:	Recombinant
Tested Applications:	WB, SDS-PAGE
Host:	E. coli
Conjugation:	Unconjugated
Form:	Lyophilized

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Purity:	> 92%
Reconstitution:	To keep the original salt concentration, we recommend reconstituting to the original concentration prior to lyophilization (see Concentration) in ddH_2O. If a lower concentration is required, dilute in 20 mM Tris, 150 mM NaCl, pH 8.0. If a higher concentration is required, the product can be reconstituted directly in 20 mM Tris, 150 mM NaCl, pH 8.0, though please note that this will change the overall salt concentration. The stock concentration should be between 0.1-1.0 mg/ml. Do not vortex.
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.
UniProt Primary AC:	P06703 (UniProt, ExPASy)
KEGG:	hsa:6277
String:	9606.ENSP00000357709
Molecular Weight:	Calculated MW: 16.9 kDa Observed MW: 16 kDa
Sequence Fragment:	Met1-Gly90
Sequence:	MACPLDQAIG LLVAIFHKYS GREGDKHTLS KKELKELIQK ELTIGSKLQD AEIARLMEDL DRNKDQEVNF QEYVTFLGAL ALIYNEALKG
Tag:	N-terminal His tag
Buffer:	Prior to lyophilization: 20 mM Tris, 150 mM NaCl, pH 8.0, containing 0.01% Sarcosyl, 5% Trehalose.
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.
Concentration:	Prior to lyophilization: 200 µg/ml
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

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