

S100 Calcium Binding Protein A6 (S100A6) Active Protein | S100A6 active protein

Active S100 Calcium Binding Protein A6 (S100A6)

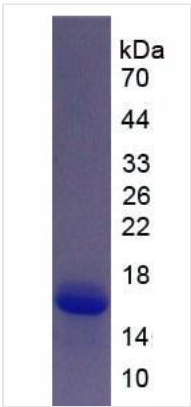
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148243	E Coli	Human	Activity Assay, Cell Culture

PRODUCT SYNONYMS

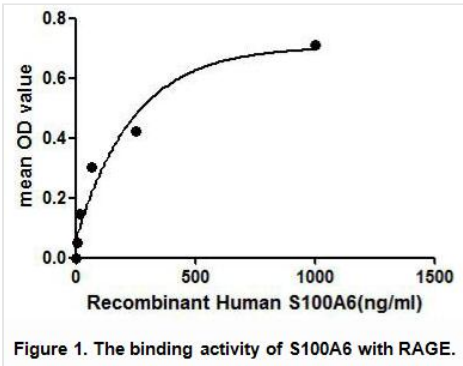
S100 Calcium Binding Protein A6 (S100A6); Active S100 Calcium Binding Protein A6 (S100A6); S100-A6; 2A9; 5B10; CABP; CACY; PRA; MLN 4; Calcyclin; Growth factor-inducible protein 2A9; Prolactin receptor-associated protein; S100A6 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 90%
Form/Format	Freeze-dried powder
Sequence Length	90
Applicable Applications for S100A6 active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Met1~Gly90
Isoelectric Point	5.7



SDS-PAGE



Activity

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 100uL were then transferred to RAGE-coated microtiter wells and incubated for 2h at 37 degree 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 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of S100A6 and RAGE was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for S100A6 active protein	Tumor immunity; Infection immunity; Hematology; Dermatology
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7657532
NCBI GeneID	6277
NCBI Accession #	NP_055439.1
NCBI GenBank Nucleotide #	NM_014624.3
UniProt Accession #	P06703; Q5RHS4; D3DV39
Molecular Weight	Predicted Molecular Weight: 16.9kDa Accurate Molecular Weight: 16kDa
NCBI Official Full Name	protein S100-A6
NCBI Official Synonym Full Names	S100 calcium binding protein A6
NCBI Official Symbol	S100A6
NCBI Official Synonym Symbols	2A9; PRA; 5B10; CABP; CACY; S10A6
NCBI Protein Information	protein S100-A6
UniProt Protein Name	Protein S100-A6
UniProt Gene Name	S100A6
UniProt Synonym Gene Names	CACY; PRA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

