

S100 Calcium Binding Protein B (S100B) Active Protein | S100B active protein

Active S100 Calcium Binding Protein B (S100B)

CATALOG # AAA148146	REACTIVITY Rat	APPLICATIONS Activity Assay, Cell Culture
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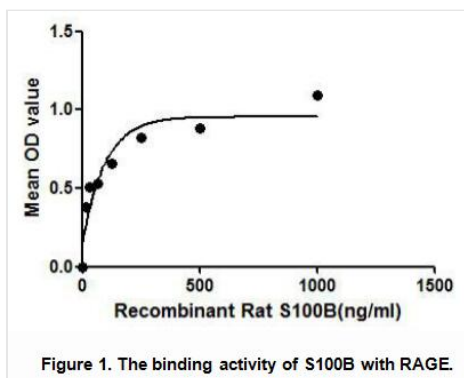
PRODUCT SYNONYMS

S100 Calcium Binding Protein B (S100B); Active S100 Calcium Binding Protein B (S100B); S100-B; NEF; S100Beta; S-100 protein subunit beta; S100B active protein

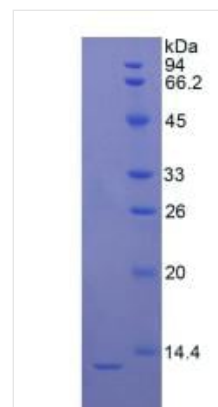
PRODUCT SPECIFICATIONS

Reactivity	Rat
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	92
Applicable Applications for S100B 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~Glu92
Isoelectric Point	4.9

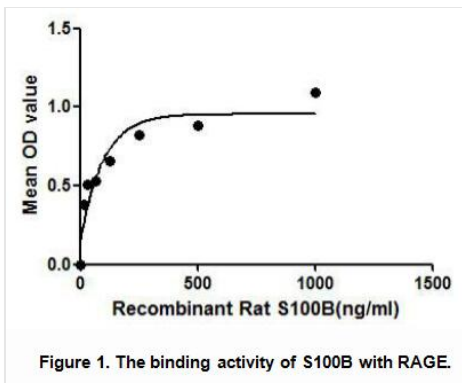
IMAGES



Application Data



SDS-PAGE



Activity

Protein S100B is a member of the S100 family. S100 proteins are EF-hand calcium-binding proteins and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. Experimental results suggest that the receptor for advanced glycation end products (RAGE) plays important roles in mediating S100 protein-induced cellular signaling. Besides, rat RAGE shares similarities with human RAGE in amino acids sequence with the identity of 80.0%. Thus a binding ELISA assay was conducted to detect the interaction of recombinant rat S100B and recombinant human RAGE. Briefly, S100B 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-S100B 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 of S100B and RAGE was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for S100B active protein	Tumor immunity; Infection immunity; Neuroscience
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6981498
NCBI GeneID	25742
NCBI Accession #	NP_037323.1
NCBI GenBank Nucleotide #	NM_013191.1
UniProt Accession #	P04631
Molecular Weight	Predicted Molecular Weight: 12.0kDa Accurate Molecular Weight: 12kDa
NCBI Official Full Name	protein S100-B
NCBI Official Synonym Full Names	S100 calcium binding protein B
NCBI Official Symbol	S100b
NCBI Official Synonym Symbols	S100P
NCBI Protein Information	protein S100-B
UniProt Protein Name	Protein S100-B
UniProt Gene Name	S100b

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.

