

S100 Calcium Binding Protein A11 (S100A11) Active Protein | S100A11 active protein

Active S100 Calcium Binding Protein A11 (S100A11)

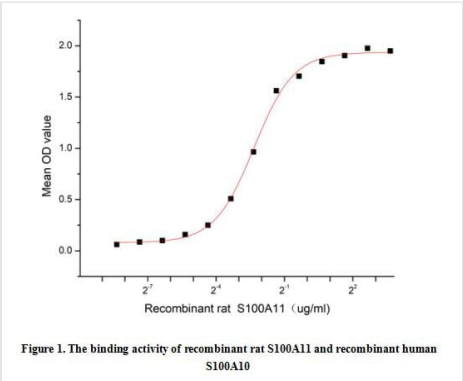
CATALOG # AAA161749	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

S100 Calcium Binding Protein A11 (S100A11); Active S100 Calcium Binding Protein A11 (S100A11); S100 Calcium Binding Protein A11; S100-A11; S100C; MLN70; Protein S100-C; Calgizzarin; Metastatic lymph node gene 70 protein; Protein S100-A11; N-terminally processed4; S100A11 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Ile9~Ile98
Applicable Applications for S100A11 active protein	Activity Assay, Cell Culture
Species	Rat
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.4
Research Area	Tumor immunity, Infection immunity, Developmental science
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

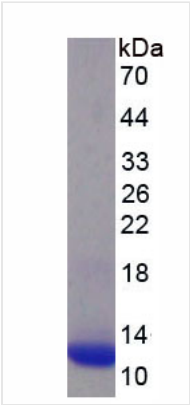


Bioactivity

S100 Calcium Binding Protein A11 (S100A11) is a member of the S100 calcium-binding protein family, it contains two EF-hand calcium-binding motifs and shares 82% amino acid sequence identity with mouse and rat S100A11. S100 proteins are localized in the cytoplasm and nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. This protein may function in motility, invasion and tubulin polymerization. Besides, S100 Calcium Binding Protein A10 (S100A10) has been identified as an interactor of S100A11, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant rat S100A11 and recombinant human S100A10. Briefly, S100A11 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to S100A10-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-S100A11 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 ul stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant rat S100A11 and recombinant human S100A10 was shown in Figure 1, the EC50 for this effect is 0.19 ug/ml.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for S100A11 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	51854249
NCBI GeneID	445415
NCBI Accession #	NP_001004095.1
NCBI GenBank Nucleotide #	NM_001004095.1
UniProt Accession #	Q6B345
Molecular Weight	11,065 Da
NCBI Official Full Name	protein S100-A11
NCBI Official Synonym Full Names	S100 calcium binding protein A11
NCBI Official Symbol	S100a11
NCBI Protein Information	protein S100-A11
UniProt Protein Name	Protein S100-A11
UniProt Gene Name	S100a11

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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/s100-calcium-binding-protein-a11-s100a11/161749>