

S100 Calcium Binding Protein A9 (S100A9) Active Protein | S100A9 active protein

Active S100 Calcium Binding Protein A9 (S100A9)

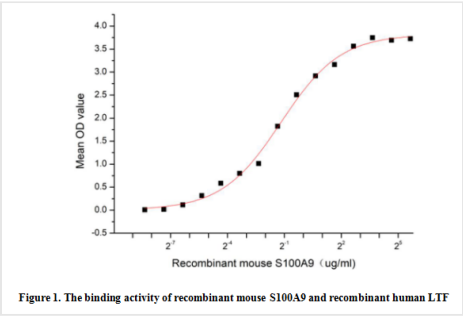
CATALOG # AAA161859	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

S100 Calcium Binding Protein A9 (S100A9); Active S100 Calcium Binding Protein A9 (S100A9); S100 Calcium Binding Protein A9; MRP14; MIF; 60B8AG; CFAG; NIF; CAGB; CGLB; L1AG; P14; Calgranulin B; Migration inhibitory factor-related protein 14; Calprotectin L1H subunit; Leukocyte L1 complex heavy chain4; S100A9 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 80% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Met1~Lys113
Applicable Applications for S100A9 active protein	Activity Assay, Cell Culture
Species	Mouse
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.9
Research Area	Tumor immunity, Infection immunity, Rheumatology
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

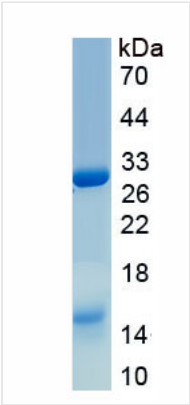


Bioactivity

S100 calcium-binding protein 9 (S100A9) also known as calgranulin B, is a member of the S100 family of secreted calcium binding proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or 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. Lactoferrin (LTF) is one of targets of S100A9, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse S100A9 and recombinant human LTF. Briefly, S100A9 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to LTF-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-S100A9 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 mouse S100A9 and recombinant human LTF was shown in Figure 1, the EC50 for this effect is 0.44 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for S100A9 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	529367291
NCBI GeneID	20202
NCBI Accession #	NP_001268781.1
NCBI GenBank Nucleotide #	NM_001281852.1
UniProt Accession #	P31725
Molecular Weight	13,049 Da
NCBI Official Full Name	protein S100-A9
NCBI Official Synonym Full Names	S100 calcium binding protein A9 (calgranulin B)
NCBI Official Symbol	S100a9
NCBI Official Synonym Symbols	p14; Cagb; GAGB; L1Ag; BEE22; MRP14; 60B8Ag; AW546964
NCBI Protein Information	protein S100-A9; S100 calcium-binding protein A9; leukocyte L1 complex heavy chain; migration inhibitory factor-related protein 14
UniProt Protein Name	Protein S100-A9
UniProt Gene Name	S100a9
UniProt Synonym Gene Names	Cagb; Mrp14; MRP-14; p14
UniProt Entry Name	S10A9_MOUSE

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-a9-s100a9/161859>