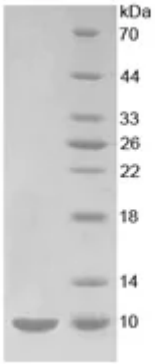
Active S100 Calcium Binding Protein A7 (S100A7)

Catalog#:PEH12810

概述（Summary）

别称（Alternative Names）	S100-A7; PSOR1; S100A7c; Psoriasin 1
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Met1-Gln101】
Accession #	P31151
表达宿主（Host）	E.coli
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	12.7 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

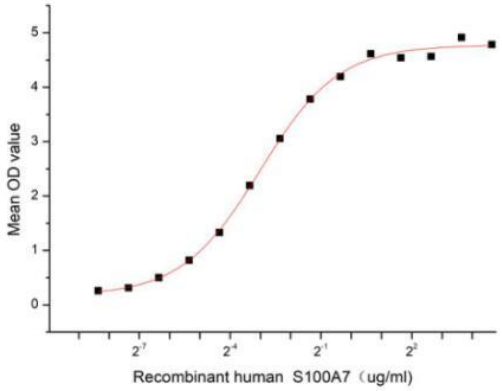


Figure 1. The binding activity of recombinant human S100A7 and recombinant pig S100A12

S100 Calcium Binding Protein A7 (S100A7), a member of the S100 family of vertebrate proteins, is an EF-hand type calcium binding protein localized in epithelial cells. S100A7 regulates cell proliferation and differentiation. An S100A7 overexpression may occur in response to inflammatory stimuli, such in psoriasis, besides S100A7 expression is upregulated in several cancers including skin, breast, lung, head, neck, cervix, bladder and gastric cancer. S100 Calcium Binding Protein A12 (S100A12) has been identified as an interactor of S100A7, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human S100A7 and recombinant pig S100A12. Briefly, S100A7 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to S100A12-coated microtiter wells and incubated for 1h at 37℃. Wells were washed with PBST and incubated for 1h with anti-S100A7 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37℃, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50 µL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human S100A7 and recombinant pig S100A12 was shown in Figure 1, the EC50 for this effect is 0.12 ug/mL.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.