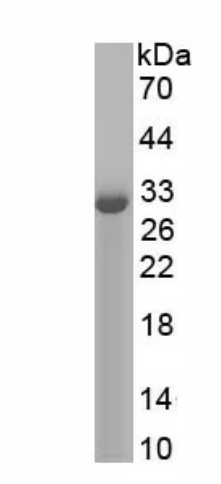
Active Elastin Microfibril Interface Located Protein 1 (EMILIN1)

Catalog#:PEH12363

概述（Summary）

别称（Alternative Names）	EMI; gp115; Elastin Microfibril Interfacer 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）	【Gln806-Ala1016】
Accession #	Q9Y6C2
表达宿主（Host）	E.coli
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	28.8 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.
背景介绍（References）	May be responsible for anchoring smooth muscle cells to elastic fibers, and may be involved not only in the formation of the elastic fiber, but also in the processes that regulate vessel assembly. Has cell adhesive capacity.

电泳图（SDS-PAGE image）



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

活性图（Bioactivity image）

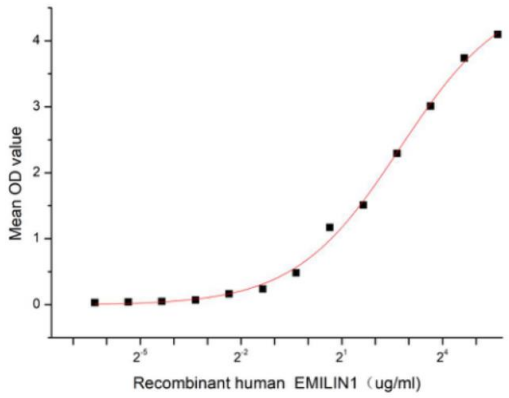


Figure 1. The binding activity of recombinant human EMILIN1 and recombinant human ITGb1

Elastin Microfibril Interface Located Protein 1 (EMILIN1) is a glycoprotein that plays an important role in the extracellular matrix (ECM). It is widely present in the extracellular matrix of arteries, lymphatic vessels and other tissues. EMILIN1 plays an important role in several biological processes, such as participating in the biosynthesis of elastic fibers (elastogenesis), maintaining vascular cell morphology and regulating cell signaling. Besides, Integrin Beta 1 (ITGb1) has been identified as an interactor of EMILIN1, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human EMILIN1 and recombinant human ITGb1. Briefly, EMILIN1 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to ITGb1-coated microtiter wells and incubated for 1h at 37℃. Wells were washed with PBST and incubated for 1h with anti-EMILIN1 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 EMILIN1 and recombinant human ITGb1 was shown in Figure 1, the EC50 for this effect is 6.64 ug/mL.

注意事项（Note）

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