# Active Multimerin 1 (MMRN1)

*Catalog#:PEH12858*

## 概述（Summary）

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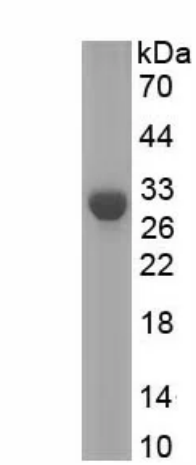
| **别称（Alternative Names）** | ECM; EMILIN4; GPIa; MMRN; Glycoprotein Ia; Elastin microfibril interface located protein 4; Endothelial cell multimerin; Platelet glycoprotein Ia; 155 kDa platelet multimerin |
| **纯度（Purity）** | Greater than 95% as determined by reducing SDS-PAGE. |
| **内毒素（Endotoxin level）** | Please contact with the lab for this information |
| **蛋白构建（Construction）** | 【Ala807-Gly1053】 |
| **Accession #** | Q13201 |
| **表达宿主（Host）** | E.coli |
| **种属（Species）** | Homo sapiens (Human) |
| **预测分子量（Predicted MW）** | 29.3 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）** | Carrier protein for platelet (but not plasma) factor V/Va. Plays a role in the storage and stabilization of factor V in platelets. Upon release following platelet activation, may limit platelet and plasma factor Va-dependent thrombin generation. Ligand for integrin alpha-IIb/beta-3 and integrin alpha-V/beta-3 on activated platelets, and may function as an extracellular matrix or adhesive protein. |

## 电泳图（SDS-PAGE image）




Greater than 95% as determined by reducing SDS-PAGE.

## 活性图（Bioactivity image）

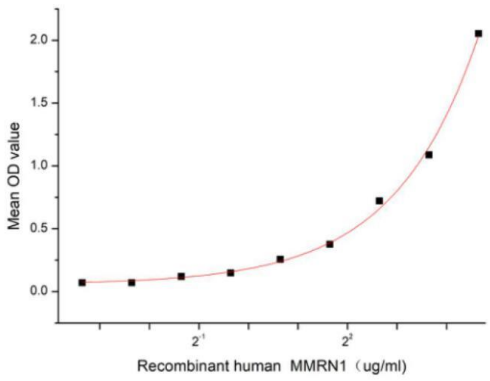



**Figure 1. The binding activity of recombinant human MMRN1 and recombinant human VTN**

Multimerin 1 (MMRN1) is a secreted glycoprotein that consists of multiple subunits, forming a complex with a molecular weight of approximately 150 kDa. MMRN1 is a member of the multimerin family and it is mainly expressed in platelets and endothelial cells. MMRN1 plays an important role in maintaining vascular integrity, regulating clotting and inflammatory responses, among others. In addition, the binding of MMRN1 to Vitronectin (VTN) plays an important role in a variety of physiological and pathological processes, including cell adhesion, migration, blood coagulation, and cell signaling. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human MMRN1 and recombinant human VTN. Briefly, MMRN1 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to VTN-coated microtiter wells and incubated for 1h at 37℃. Wells were washed with PBST and incubated for 1h with anti-MMRN1 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 MMRN1 and recombinant human VTN was shown in Figure 1, and this effect was in a dose dependent manner.

## 注意事项（Note）

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