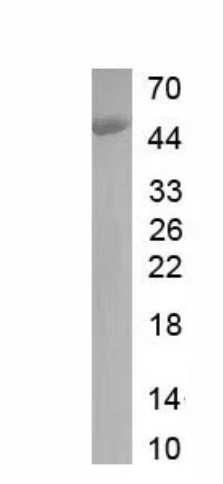
Active Integrin Alpha 2 (ITGa2)

Catalog#:PEM12630

概述（Summary）

别称（Alternative Names）	CD49b; BR; GPIa; VLA-2; VLAA2; Platelet membrane glycoprotein Ia; Alpha 2 Subunit Of VLA-2 Receptor; Very Late Activation Proteins 2 Receptor; Collagen receptor; VLA-2 alpha
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）	【Gln212-Asn370】
Accession #	Q62469
表达宿主（Host）	E.coli
种属（Species）	Mus musculus (Mouse)
预测分子量（Predicted MW）	47.5 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）	Integrin alpha-2/beta-1 is a collagen receptor, being responsible for adhesion of platelets and other cells to collagens, modulation of collagen and collagenase gene expression, force generation and organization of newly synthesized extracellular matrix. It is also a receptor for laminins, collagen C-propeptides and E-cadherin. Mice homozygous for a null mutation in the alpha-2 die very early in embryogenesis.

电泳图（SDS-PAGE image）



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

活性图（Bioactivity image）

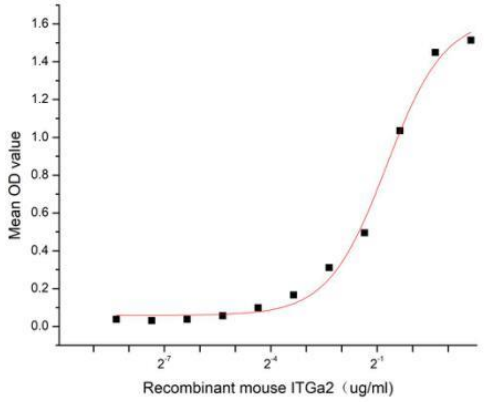


Figure 1. The binding activity of recombinant mouse ITGa2 and recombinant mouse ITGb1

Integrin Alpha 2 (ITGa2), also known as CD49b, is one of twelve integrin family alpha subunits which is pivotal to sustain the integrity of the cytoskeletal–extracellular matrix linkage among all cell adhesion receptors. Some research had shown that ITGa2 is a cell transmembrane receptor that assists the adhesion of other several cells to the extracellular matrix. In addition, changes of ITGa2 expression affect the immune microenvironment and immunogenicity of tumors. Integrin Beta 1 (ITGb1) has been identified as an interactor of ITGa2, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse ITGa2 and recombinant mouse ITGb1. Briefly, ITGa2 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-ITGa2 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 mouse ITGa2 and recombinant mouse ITGb1 was shown in Figure 1, the EC50 for this effect is 0.6 ug/mL.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.