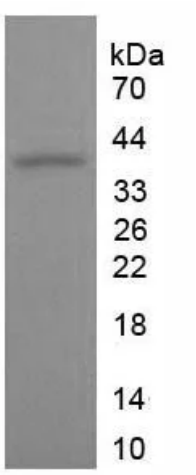
Active Interleukin 2 Receptor Alpha (IL2Ra)

Catalog#:PEM12754

概述（Summary）

别称（Alternative Names）	CD25; IL2R-a; IL2-RA; IDDM10; IL2R; TCGFR; p55; TAC antigen
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）	【Glu22-Lys236】
Accession #	P01590
表达宿主（Host）	E.coli
种属（Species）	Mus musculus (Mouse)
预测分子量（Predicted MW）	28.4 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 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 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Receptor for interleukin-2. The receptor is involved in the regulation of immune tolerance by controlling regulatory T cells (TREGs) activity. TREGs suppress the activation and expansion of autoreactive T-cells.

电泳图（SDS-PAGE image）



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

活性图（Bioactivity image）

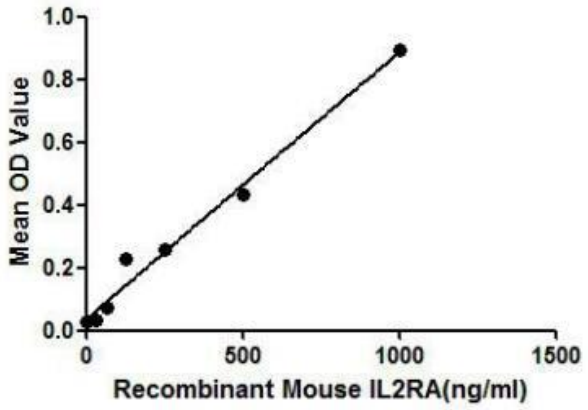


Figure 1. The binding activity of IL2RA with IL2.

IL2RA (Interleukin-2 receptor alpha chain), also known as Tac antigen and as CD25, was initially identified as a 55kDa membrane glycoprotein which is capable of binding IL 2. Besides, mouse IL2 shares 75.1% AA sequence identity with rat IL2, suggesting the exist of cross-species activity. Thus we have conducted a binding ELISA assay to detect the interaction of recombinant rat IL2RA with recombinant mouse IL2. Briefly, IL2RA were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to IL2-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IL2RA pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μL stop solution to the wells and read at 450nm immediately. The binding activity of IL2RA with IL2 was shown in Figure 1 and this effect was in a dose dependent manner.

注意事项（Note）

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