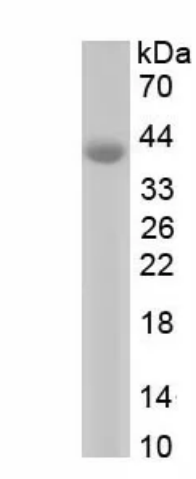
Active Fc Fragment Of IgG Low Affinity IIIa Receptor (FcgR3A)

Catalog#:PEM12636

概述（Summary）

别称（Alternative Names）	CD16a; CD16-A; FCGR3-A; FCG3; FcgRIII; IGFR3; NA; Neutrophil Antigen; Low affinity immunoglobulin gamma Fc region receptor III-A
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）	【Leu5-Ile240】
Accession #	Q8R2R4
表达宿主（Host）	E.coli
种属（Species）	Mus musculus (Mouse)
预测分子量（Predicted MW）	40.4 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）

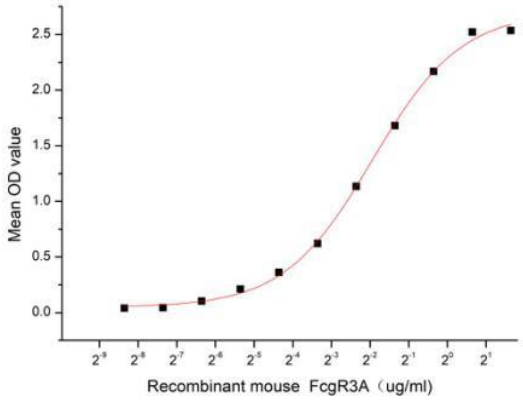


Figure 1. The binding activity of recombinant mouse FcgR3A and mouse IgG

Fc receptor with low affinity for IgG (Fc gamma RIII, CD16) is encoded by two nearly identical genes, Fc gamma RIII-A and Fc gamma RIII-B, resulting in tissue-specific expression of alternative membrane-anchored isoforms. FcgR3A is expressed in almost all white blood cells and is primarily responsible for the ADCC action of NK cells and the clearance of antibody-antigen immune complexes by macrophages. FcgR3B is mainly expressed in neutrophils and can stimulate the release of superoxide in neutrophils. A functional binding ELISA assay was conducted to detect the interaction of recombinant mouse FcgR3A and mouse IgG. Briefly, biotin-linked FcgR3A were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to IgG-coated microtiter wells and incubated for 1h at 37℃. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then 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 nm immediately. The binding activity of recombinant mouse FcgR3A and mouse IgG was shown in Figure 1, the EC50 for this effect is 0.26 ug/mL.

注意事项（Note）

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