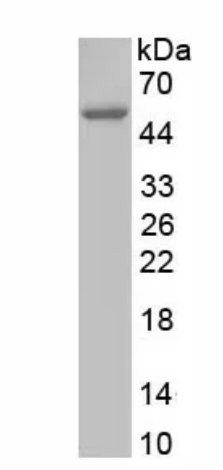
Active Protein Tyrosine Phosphatase Receptor Type C (CD45)

Catalog#:PHH12586

概述（Summary）

别称（Alternative Names）	PTPRC; PTPR-C; LCA; B220; GP180; LY5; T200; Leukocyte common antigen
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）	【Gln26-Lys463】
Accession #	E9PKH0
表达宿主（Host）	293F
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	50.6 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 95% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

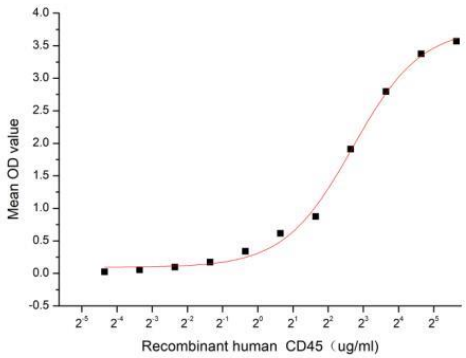


Figure 1. The binding activity of recombinant human CD45 and recombinant human SEMA4D

Protein Tyrosine Phosphatase Receptor Type C (CD45) is one of the most abundant leukocyte cell surface glycoproteins and is expressed exclusively upon cells of the hematopoietic system. CD45 functions positively to regulate lymphocyte activation by servesing to dephosphorylate and activate members of the Src-tyrosine kinase family. it has been reported that SEMA4D can associate with the phosphatase CD45 at the surface of T cells and that triggering of CD45 on T cells, using monoclonal antibodies (mAb), induces shedding of SEMA4D. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human CD45 and recombinant human SEMA4D. Briefly, biotin-linked CD45 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to SEMA4D-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 CD45 and SEMA4D was shown in Figure 1, the EC50 for this effect is 6.47 ug/mL.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.