APA569Hu61 100μg
Active P-Selectin (SELP)
Organism Species: ***Homo sapiens (Human)***
Instruction manual

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

[PROPERTIES]

Source: Eukaryotic expression.
Host: 293F cell
Residues: Lys58~Glu195
Tags: N-terminal His Tag and C-terminal Fc Region of Human IgG1
Purity: >90%
Endotoxin Level: <1.0EU per 1μg (determined by the LAL method).
Buffer Formulation: PBS, pH7.4, containing 5% trehalose.
Applications: Cell culture; Activity Assays.
(May be suitable for use in other assays to be determined by the end user.)
Predicted isoelectric point: 7.1
Predicted Molecular Mass: 47.1kDa
Accurate Molecular Mass: 48kDa as determined by SDS-PAGE reducing conditions.

[USAGE]

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.
Store at 2-8ºC for one month.
Aliquot and store at -80ºC for 12 months.
Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37ºC for 48h, and no obvious degradation and precipitation were

observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCE]

KYC QNRYTDLVAI QNKNEIDYLN KVLPYYSSYY WIGIRKNNKT
WTWVGTKKAL TNEAENWADN EPNNKRNNED CVEIYIKSPS APGKWNDEHC
LKKKHALCYT ASCQDMSCSK QGECLETIGN YTCSCYPGFY GPECE

[ACTIVITY]

Selectin (SELP), a Ca(2+)-dependent receptor on myeloid cells, belongs to the selectin/LECAM family. SELP binds to neutrophils and monocytes via carbohydrates, it interacts with SELPLG to enable rapid leukocyte rolling over vascular surfaces in early inflammation. It has been reported that that CD24 is a ligand for P-selectin and the CD24/P-selectin binding pathway could be important in the dissemination of tumor cells by facilitating the interaction with platelets or endothelial cells. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human SELP and recombinant human CD24. Briefly, biotin-linked SELP were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to CD24-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 human SELP and recombinant human CD24 was shown in Figure 1, the EC50 for this effect is 0.56 ug/mL.

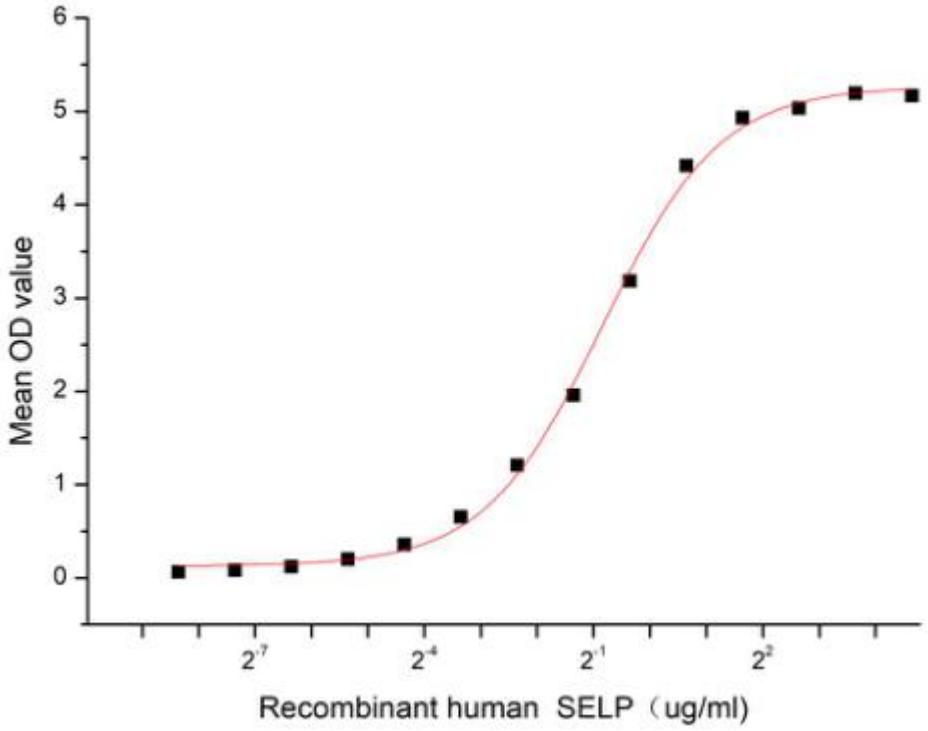

Figure 1. The binding activity of recombinant human SELP and recombinant human CD24

[IDENTIFICATION]

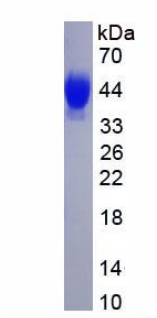

Figure 2. SDS-PAGE

Sample: Active recombinant SELP, Human

[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if

the kit was used in clinical diagnostic or any other procedures.