**BACKGROUND**

PSGL-1 (P-Selectin glycoprotein ligand, also designated CD162), exists as a disulfide-linked homodimer. PSGL-1 is a type 1 membrane protein that localizes on the tips of microvilli of leukocytes. Its extracellular domain is rich in serines, threonines and prolines, and includes a series of 15 and 16 ecameric repeats in HL-60 and U-937 cells, and human leukocytes, respectively. Although PSGL-1 appears to be the sole receptor for P-Selectin on human hematopoietic cells, it also interacts with E-Selectin through a unique binding site. In order to bind PSGL-1 to either E-Selectin or P-Selectin, PSGL-1 must be sialylated and fucosylated. PSGL-1 is a mucin-like molecule, much like leukosialin (CD43), CD164 and CD34. These proteins belong to an emerging family of cell adhesion receptors called sialomucins, which transduce negative signals in hematopoietic cells.

**CHROMOSOMAL LOCALIZATION**

Genetic locus: SELPLG (human) mapping to 12q24.11.

**SOURCE**

PSGL-1 (KPL1) is a mouse monoclonal antibody raised against amino acids 5-11 of PSGL-1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available azide-free for neutralizing, sc-13535 L, 200 µg/0.1ml.

PSGL-1 (KPL1) is available conjugated to agarose (sc-13535 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-13535 HRP), 200 µg/ml, for WB, IHCP and ELISA; and to either phycoerythrin (sc-13535 PE), fluorescein (sc-13535 FITC), Alexa Fluor® 488 (sc-13535 AF488) or Alexa Fluor® 647 (sc-13535 AF647), 200 µg/ml, for IF, IHCP and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

**APPLICATIONS**

PSGL-1 (KPL1) is recommended for detection of PSGL-1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10^6 cells).

Suitable for use as control antibody for PSGL-1 siRNA (h): sc-36323, PSGL-1 shRNA Plasmid (h): sc-36323-SH and PSGL-1 shRNA (h) Lentiviral Particles: sc-36323-V.

Molecular Weight of PSGL-1 monomer: 120 kDa.

Molecular Weight of PSGL-1 homodimer: 240 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, NCI-H929 whole cell lysate: sc-364786 or MOLT-4 cell lysates: sc-2233.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

PSGL-1 (KPL1): sc-13535. Western blot analysis of PSGL-1 expression in Jurkat (A), NCI-H929 (B) and MOLT-4 (C) whole cell lysates.

PSGL-1 (KPL1): sc-13535. Immunofluorescence staining of methanol-fixed CCRF-CEM cells showing membrane staining (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human lymph node tissue showing membrane and cytoplasmic staining of cells in non-germinal center (B).

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.