

MOUSE ANTI-P-SELECTIN GLYCOPROTEIN LIGAND-1 [PSGL-1] MONOCLONAL ANTIBODY

CATALOG NUMBER:	MAB4092	QUANTITY:	100 µg
LOT NUMBER:		CONCENTRATION:	1 mg/mL
ALTERNATE NAMES:	CD162; PSGL1; SELPLG	EPITOPE:	N-terminus
CLONE NAME:	KPL-1; KPL1	HOST/ISOTYPE:	Ms IgG1
BACKGROUND:	Interactions between P-selectin and P-selectin glycoprotein ligand-1 (PSGL-1) mediate the earliest “rolling” of leukocytes on the luminal surface of endothelial cells at sites of inflammation. To date, the primary role of PSGL-1 in mediating the interaction between neutrophils and P-selectin has been well documented. MAB4092 completely blocks recognition of PSGL-1 by either P-selectin or by L-selectin, but does not affect leukocyte recognition of E-selectin. Two color flow cytometry of normal leukocytes has demonstrated that PSGL-1 is expressed on essentially all blood neutrophils, NK cells, blood cells, T cells, and monocytes, but PSGL-1 stains B cells at significantly lower levels than other cell types. Variation in tyrosine sulfation during B cell differentiation may affect the stability of B cells to interact with P- and L-selectin. {Snapp, KR et al 1998}.		
SPECIFICITY:	P-selectin glycoprotein ligand-1 (PSGL-1). The antibody epitope was mapped to a site within a consensus tyrosine sulfation motif of PSGL-1, previously shown to be essential for interaction with P-selectin (and now shown to be essential for recognition of PSGL-1 by L-selectin). {Snapp KR et al. 1998}. The binding of KPL-1 to human PSGL-1 on HL-60 cells does not require sulfation {Thatte, A et al 2002}.		
IMMUNOGEN:	Mouse murine 300.19 pre B-cell line expressing full length human PSGL-1 {Snapp, KR et al 1998}.		
APPLICATIONS:	Western blot of HL60 whole cell lysates prepared with 1% triton X-100 in 150mM NaCl, 10mM Tris-HCL pH 7.6, 1 mM Ca++, 1 mM Mg++, with 1mmol aprotinin, PMSF,leupeptin, and pepstatin A {Snapp, KR et al 1998}. 1:1000 FACS {Snapp, KR et al 1998}. Immunoprecipitation: 0.5% triton X-100 in TBS with proteinase inhibitors; 5 µg/500µL of whole cell lysate (350-500mg/mL total protein). Functional blocking of P-selectin {Snapp KR et al 1998}. Immunohistochemistry: Fresh frozen, acetone fixed sections Immunohistochemistry in paraffin embedded tissues: formalin fixed, pretreatment standard citric acid pH 6.0, microwave treatment is recommended 1:50-1:200 <i>Optimal working dilutions must be determined by the end user.</i>		
SPECIES REACTIVITY:	Human; known not to react with Rat, Bovine, Pig, and Equine PSGL-1 {Snapp, KR et al 1998; Baisse, B et al 2007}.		
CONTROL:	Human HL60 cells.		
PRESENTATION:	Liquid in 0.02M PB with 0.25M NaCl, pH=7.6, 0.1% Sodium Azide.		



STORAGE/HANDLING: Maintain at 2-8°C in undiluted aliquots up to 12 months from date of receipt.

REFERENCES:

Snapp KR, et al. (1998) "A Novel P-selectin glycoprotein Ligand-1 monoclonal antibody recognizes an Epitope within the tyrosine sulfate motif of human PSGL-1 and blocks recognition of both P and L-selectins." *Blood*, **91(1)**:154-164.

Baisse, B et al (2007) "Evolutionary conservation of P-selectin glycoprotein ligand-I primary structure and function." *BMC Evolutionary Biology*, **7**:166.

Forte, Pietro et al (2001) "HLA-G Inhibits rolling adhesion of activated human NK cells on porcine endothelial cells" *J of Immunology* 167:6002-6008.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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