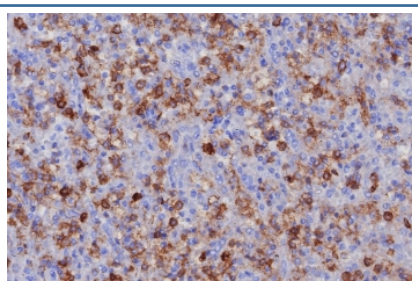
PSGL-1 Antibody PSGL1/8192R / Leukocyte Trafficking Marker [clone PSGL1/8192R] (V4317)

Catalog No.	Formulation	Size
V4317-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4317-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4317SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

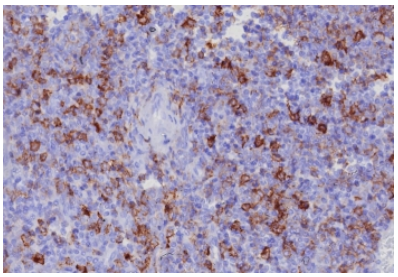
Recombinant RABBIT MONOCLONAL

Bulk quote request

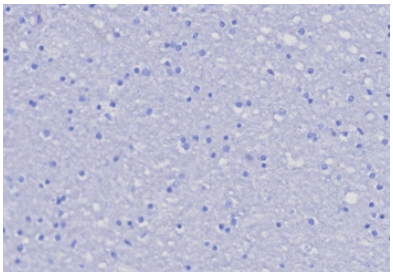
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	PSGL1/8192R
Purity	Protein A/G affinity
UniProt	Q14242
Localization	Cell surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Limitations	This PSGL-1 Antibody PSGL1/8192R / Leukocyte Trafficking Marker is available for research use only.



PSGL-1 Antibody PSGL1/8192R in Human Spleen IHC. Immunohistochemistry staining of FFPE human spleen tissue with PSGL-1 Antibody PSGL1/8192R / Leukocyte Trafficking Marker. HIER was performed by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9, for 20 min followed by cooling before testing. The observed staining demonstrates PSGL-1 expression in human spleen tissue.



PSGL-1 Antibody PSGL1/8192R in Human Tonsil IHC. Immunohistochemistry staining of FFPE human tonsil tissue with PSGL-1 Antibody PSGL1/8192R / Leukocyte Trafficking Marker. HIER was performed by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9, for 20 min followed by cooling before testing. CD162 staining demonstrates PSGL-1 detection in human tonsil tissue.



PSGL-1 Antibody PSGL1/8192R Negative Control in Human Brain IHC. Immunohistochemistry testing of FFPE human brain tissue with PSGL-1 Antibody PSGL1/8192R / Leukocyte Trafficking Marker at 2 ug/ml. HIER was performed by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9, for 20 min followed by cooling before testing. Human brain serves as a negative-control tissue for PSGL-1 staining.

Description

PSGL-1 Antibody PSGL1/8192R / Leukocyte Trafficking Marker detects P-selectin glycoprotein ligand 1, a cell-surface glycoprotein encoded by the SELPLG gene and also known as CD162. PSGL-1 functions as a high-affinity counter-receptor for selectins and is expressed on myeloid cells, activated T lymphocytes and other leukocyte populations. Through interactions with P-, E- and L-selectin, PSGL-1 contributes to leukocyte adhesion and trafficking during inflammatory and immune responses.

PSGL-1 is a mucin-like transmembrane glycoprotein that undergoes extensive post-translational modification. High-affinity selectin binding requires modifications that include tyrosine sulfation and addition of the sialyl Lewis x carbohydrate structure to O-linked glycans. These modifications create functional selectin-binding sites and enable PSGL-1 to interact efficiently with selectins expressed on activated platelets and vascular endothelial cells.

Leukocyte trafficking is one of the principal functions associated with PSGL-1. During inflammation, interactions between CD162 on circulating leukocytes and selectins on activated vascular surfaces mediate initial tethering and rolling under blood flow. These transient adhesive interactions slow circulating leukocytes and facilitate subsequent firm adhesion and migration across the vascular endothelium. PSGL-1 is therefore widely studied in mechanisms controlling recruitment of immune cells to inflammatory sites.

PSGL-1 also contributes to immune biology beyond its mechanical role in cell adhesion. Selectin engagement can influence leukocyte activation and intracellular responses, while differences in PSGL-1 expression and glycosylation can regulate the ability of particular immune-cell populations to interact with vascular selectins. CD162 is consequently relevant to studies of innate and adaptive immunity, inflammatory recruitment and communication among leukocytes, platelets and endothelial cells.

Clone PSGL1/8192R is a recombinant rabbit monoclonal antibody generated against full-length recombinant human protein. It has been evaluated by immunohistochemistry in FFPE human tissues, with positive staining demonstrated in spleen and tonsil and human brain included as a negative-control tissue. Recombinant production provides a defined antibody sequence and supports consistent performance across manufacturing lots. NSJ Bioreagents supplies antibodies for immunology, inflammation and leukocyte biology research. A PSGL-1 Antibody can be used to investigate CD162 expression, selectin interactions, leukocyte trafficking and inflammatory cell recruitment.

For broader research on PSGL-1/CD162 expression, selectin interactions and leukocyte trafficking, see our CD162 Antibody / P-Selectin Glycoprotein Ligand 1 Antibody page.

Application Notes

Optimal dilution of the PSGL-1 Antibody PSGL1/8192R / Leukocyte Trafficking Marker should be determined by the researcher.

Immunogen

Recombinant full-length human protein was used as the immunogen for the PSGL-1 antibody.

Storage

Aliquot the PSGL-1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

PSGL-1 antibody, Leukocyte Trafficking Marker antibody, CD162 antibody, SELPLG antibody, P-Selectin Glycoprotein Ligand 1 antibody

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