

Product datasheet

Anti-PSGL-1 antibody [TC2] (FITC) ab88033

1 Image

Overview

Product name	Anti-PSGL-1 antibody [TC2] (FITC)
Description	Mouse monoclonal [TC2] to PSGL-1 (FITC)
Host species	Mouse
Conjugation	FITC. Ex: 493nm, Em: 528nm
Specificity	Reacts with PSGL-1, a 220 kDa type I integral membrane protein expressed as disulfide-linked homodimer (sialomucin family). PSGL-1 is present on the most peripheral blood T lymphocytes, monocytes, granulocytes; it is also expressed on a subpopulation of B lymphocytes and CD34+ bone marrow cells.
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Tissue, cells or virus corresponding to PSGL-1. Human thymocytes.
Positive control	Human peripheral blood
General notes	The purified antibody(>95% by SDS-PAGE) is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.097% Sodium azide Constituent: 0.2% BSA
Purity	0.2% BSA (high-grade, protease free) Size exclusion
Purification notes	Size exclusion chromatography
Clonality	Monoclonal
Clone number	TC2
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab88033** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 20µl for 10 ⁶ cells. ab91356 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

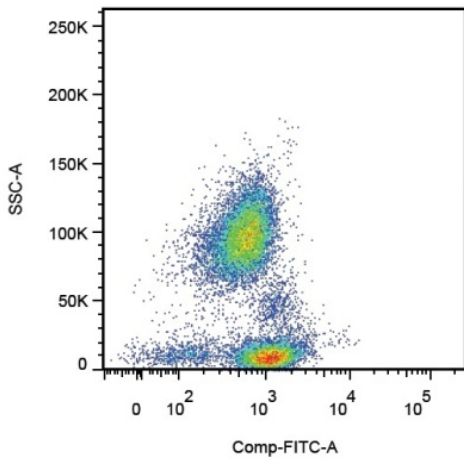
Function A SLe(x)-type proteoglycan, which through high affinity, calcium-dependent interactions with E-, P- and L-selectins, mediates rapid rolling of leukocytes over vascular surfaces during the initial steps in inflammation. Critical for the initial leukocyte capture.
(Microbial infection) Acts as a receptor for enterovirus 71.

Tissue specificity Expressed on neutrophils, monocytes and most lymphocytes.

Post-translational modifications Displays complex, core-2, sialylated and fucosylated O-linked oligosaccharides, at least some of which appear to contain poly-N-acetyllactosamine with varying degrees of substitution. Mainly disialylated or neutral forms of the core-2 tetrasaccharide, Galbeta1-->4GlcNAcbeta1-->6(Galbeta1-->3)GalNAcOH. The GlcN:GalN ratio is approximately 2:1 and the Man:Fuc ratio 3:5. Contains about 14% fucose with alpha-1,3 linkage present in two forms: One species is a disialylated, monofucosylated glycan, and the other, a monosialylated, trifucosylated glycan with a poly lactosamine backbone. The fucosylated forms carry the Lewis antigen and are important for interaction with selectins and for functioning in leukocyte rolling. The modification containing the sialyl Lewis X glycan is on Thr-57. No sulfated O-glycans. Some N-glycosylation. Sulfation, in conjunction with the SLe(x)-containing glycan, is necessary for P- and L-selectin binding. High affinity P-selectin binding has a preferred requirement for the isomer sulfated on both Tyr-48 and Tyr-51, whereas L-selectin binding requires predominantly sulfation on Tyr-51 with sulfation on Tyr-48 playing only a minor role. These sulfations play an important role in L- and P-selectin-mediated neutrophil recruitment, and leukocyte rolling.

Cellular localization Membrane.

Images



ah88033 detecting PSGL-1 in Human peripheral blood cells by
Flow cytometry

Flow Cytometry - Anti-PSGL-1 antibody [TC2] (FITC)
(ab88033)

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