


Anti-PSGL-1 antibody [HECA-452] ab110096

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Overview

Product name	Anti-PSGL-1 antibody [HECA-452]
Description	Rat monoclonal [HECA-452] to PSGL-1
Host species	Rat
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse 
Immunogen	Tissue, cells or virus corresponding to Human PSGL-1. Stromal preparation of human tonsils.
Positive control	Human spleen or tonsil tissue. Human peripheral blood lymphocytes.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.09% Sodium azide Constituent: PBS
Clonality	Monoclonal
Clone number	HECA-452
Isotype	IgM

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab110096 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
IHC-P		Use a concentration of 10 µg/ml.

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.

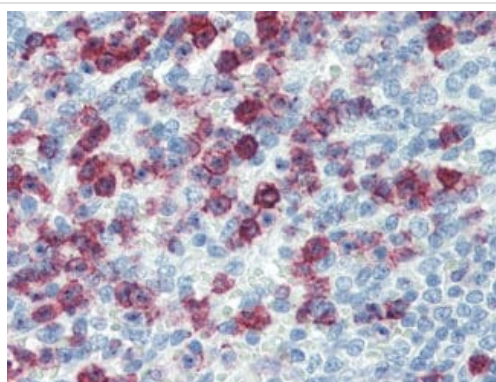
Post-translational modifications

Displays complex, core-2, sialylated and fucosylated O-linked oligosaccharides, at least some of which appear to contain poly-N-acetylactosamine 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 polylactosamine 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

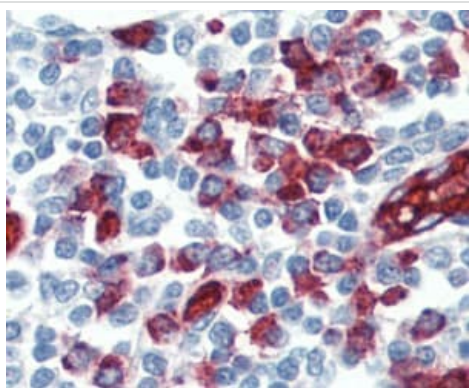
Membrane.

Images



ab110096 at 10µg/ml staining PSGL-1 in Formalin/PFA-fixed paraffin-embedded Human spleen tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PSGL-1 antibody [HECA-452] (ab110096)



ab110096 at 10µg/ml staining PSGL-1 in Formalin/PFA-fixed paraffin-embedded Human tonsil tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PSGL-1 antibody [HECA-452] (ab110096)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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