Datasheet for ABIN7506010

anti-SIGLEC10 antibody (Extracellular Domain) (PE)

2 Images

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Overview

Quantity:	100 tests
Target:	SIGLEC10
Binding Specificity:	Extracellular Domain
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SIGLEC10 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Hu SIGLEC10 PE
Immunogen:	SIGLEC10 extracellular domain fused with human IgG1 Fc fragment
Clone:	5G6
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody 5G6 recognizes an extracellular epitope of human SIGLEC10, a sialic acid-binding lectin expressed on subsets of human leucocytes.
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

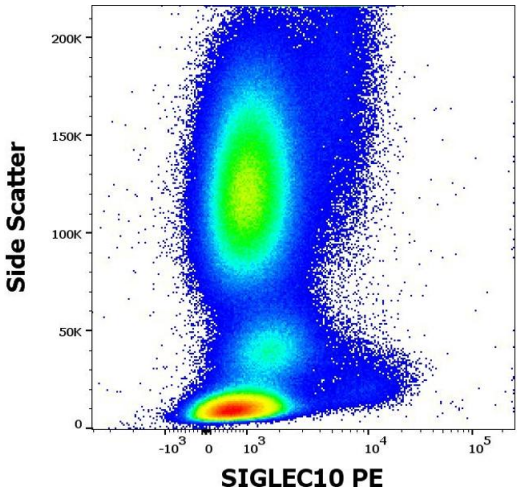
Target:	SIGLEC10
Alternative Name:	SIGLEC10 (SIGLEC10 Products)
Background:	Sialic acid binding Ig like lectin 10,SIGLEC10 is a CD33-related receptor of sialoglycans, expressed on eosinophils, monocytes, a subpopulation of NK cells, and at lower level on B cells. Its murine ortholog is Siglec G. SIGLEC10 seems to act as an immunomodulatory receptor, which binds to VAP-1, a glycoprotein expressed on endothelium under inflammatory conditions. Another ligand of SIGLEC10 is CD24, a marker of poorer prognosis in carcinomas.,PRO940, SGL2
Gene ID:	89790
UniProt:	Q96LC7

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Restrictions:	For Research Use only

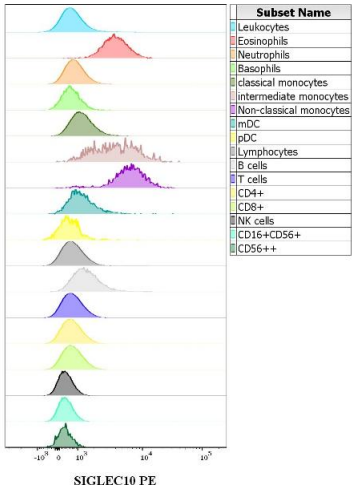
Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.



Flow Cytometry

Image 1. Anti-SIGLEC10 PE antibody (clone 5G6) works in flow cytometry application. Analysis of the antibody staining profile was performed on blood leukocytes isolated from buffy coats. HCDM CDMaps standardized procedures (Kuzilkova D et al. Front Immunol. 2022,13:827898) were used for cell isolation and surface staining of blood leukocytes, with the modification of staining protocol using cytometry test tubes. Mouse monoclonal anti-human SIGLEC10 PE antibody (clone 5G6) was used in amount of 10 µL in 100 µL of blood sample (2 x 106 cells).



Flow Cytometry

Image 2. Expression profiling on peripheral blood subsets using Anti-SIGLEC10 PE antibody (clone 5G6). HCDM CDMaps standardized procedures (Kuzilkova D et al. Front Immunol. 2022,13:827898) were used for cell isolation and surface staining of blood leukocytes, with the modification of staining protocol using cytometry test tubes. Suspension of blood leukocytes isolated from buffy coats (2 x 106 cells) was added to the mixture of anti-human SIGLEC10 PE antibody (clone 5G6, 10 µL reagent / 100 µL of stained blood sample) and Monocyte Blocking Buffer (#ED7747), vortexed and incubated for 20 min. Next, optimized backbone antibody panels (HLDA Innate and HLDA Adaptive) were added to test tubes, vortexed and incubated for 20 min. The residual erythrocytes were lysed with 2 mL of 10x diluted EXCELLYSE Easy solution (#ED7066) and incubated for 10 min. Finally, samples were centrifuged (670 g, 5 min.), supernatant removed and the cell pellet was resuspended in 200 µL of PBS for acquisition.