

Product datasheet for **AM60044RP-N**

SIGLEC10 Mouse Monoclonal Antibody [Clone ID: 5G6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5G6
Applications:	FC
Recommended Dilution:	Flow cytometry: Neat , use 10ul of the suggested working dilution to label 10e6 cells.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human SIGLEC10, fused with the Fc region of human IgG
Specificity:	This antibody clone 5G6 specifically recognizes human SIGLEC10. Studies have shown that clone 5G6 does not cross react with SIGLECs 3, 5, 7, 8 and 9 (<i>Munday J. et al.</i>)
Formulation:	PBS containing 0.09% Sodium azide, 1% BSA and 5% Sucrose Label: PE State: Purified State: Lyophilized purified IgG Label: R. Phycoerythrin
Reconstitution Method:	Restore with 1 ml distilled water.
Purification:	Affinity chromatography on Protein G
Conjugation:	PE
Storage:	Prior to and following reconstitution store the antibody at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	sialic acid binding Ig like lectin 10
Database Link:	Entrez Gene 89790 Human Q96LC7



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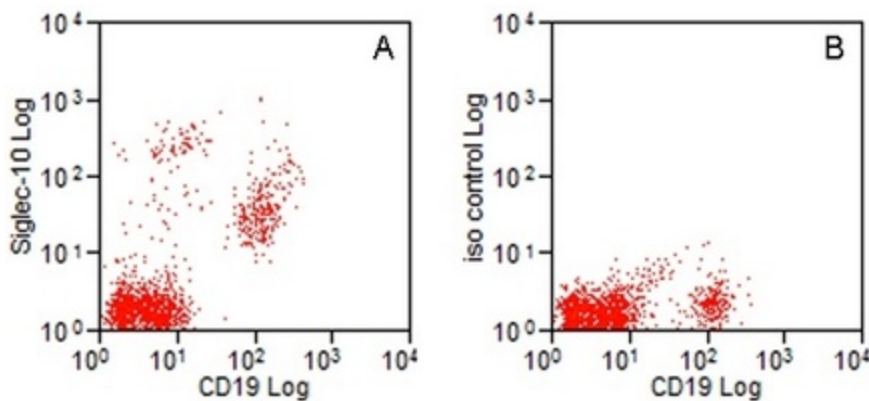
Background:

Siglec10 (Sialic acid binding Ig like lectin 10), a putative adhesion molecule and member of the Ig superfamily, is expressed by monocytes, B cells, eosinophils, and at a higher level by a subpopulation of CD16⁺CD56⁻ natural killer (NK) cells.

Structurally, Siglec10 is most similar to the CD33 related group of Siglecs, and preferentially binds to glycoconjugates containing alpha 2,3 or alpha2,6 linked sialic acid. Studies have shown that Siglec10 acts as a substrate for VAP1 (Vascular adhesion protein1), a glycoprotein expressed on endothelium during inflammation, which is involved in primary amine oxidation and leucocyte trafficking (Kive, E. *et al.*). This interaction between Siglec10 and VAP1, implicates Siglec10 in endothelial lymphocyte adhesion and in the modulation of the inflammatory microenvironment.

Synonyms:

Siglec-10, SLG2

Product images:

Human peripheral blood lymphocytes stained with A: mouse anti-human SIGLEC10 Cat.-No. AM60044RP-N or B the corresponding isotype control; dual stained with mouse anti-human CD19-APC Cat.-No. [SM1529APC]