

Product datasheet for **AM60041FC-N**

SIGLEC5 / SIGLEC14 Mouse Monoclonal Antibody [Clone ID: 1A5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1A5
Applications:	FC
Recommended Dilution:	Flow cytometry: Neat-1/10, use 10µl of this working dilution to label 10e6 cells in 100µl.
Reactivity:	Chimpanzee, Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	SIGLEC5-Fc protein, consisting of the full-length extracellular region of human SIGLEC5, fused with the Fc region of human IgG1
Specificity:	This antibody recognises human SIGLEC5 / CD170. Clone 1A5 antibody is one of several SIGLEC5 antibodies which also recognises human SIGLEC14 (<i>Angata, T. et al., 2006</i>).
Formulation:	PBS containing 0.09% Sodium azide and 1% BSA Label: FITC State: Purified State: Liquid purified IgG Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	FITC
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Background:

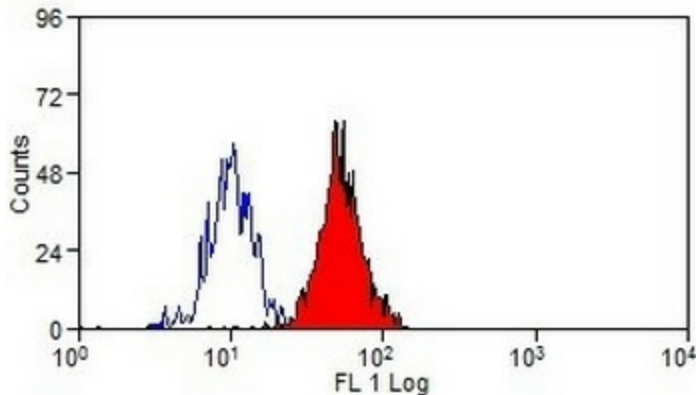
Siglec-5 shares an almost identical sequence with Siglec-14 within the first two Ig-like domains, indicating partial gene conversion between these two Siglecs, also evident in other primate species.

Siglec-5, also known as CD170, is a sialic-acid-binding Ig-like lectin, and member of the Ig superfamily, expressed by dendritic cells (DCs), activated macrophages, neutrophils, and cells of the monocyte/myeloid lineage. Highly related to the myelomonocytic-derived adhesion molecule CD33 (Siglec-3), Siglec-5 mediates sialic-acid dependent binding to cells, and is as well acting as an inhibitory receptor in the down-regulation of cell activation. Structurally, Siglec-5 contains an immunoreceptor tyrosine-based inhibitor motif (ITIM), which plays a part in the modulation of cellular responses, and when phosphorylated, can bind to the SH2 domain of several SH2-containing phosphatases.

Siglec-14 is a putative sialic-acid binding adhesion molecule and predominantly expressed in hematopoietic tissues, which have been shown to associate with the activating adapter protein DAP12.

Synonyms:

Q08ET2, O15389, CD170

Product images:

Human peripheral blood monocytes stained with SIGLEC5 / SIGLEC14 antibody Cat.- No.AM60041FC-N.