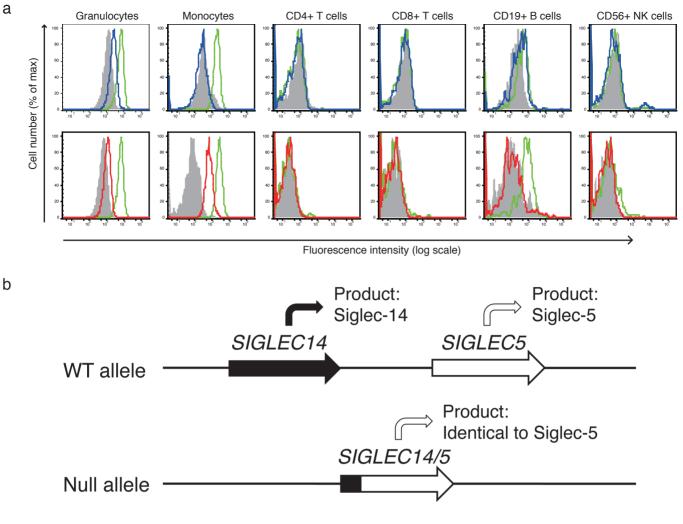
Supplementary method

Genotyping (Reproduced from Yamanaka et al. 2009, *Glycobiology* **19**:841-846, with slight modifications.)

Primers used for specific amplification of SIGLEC14, SIGLEC5, and SIGLEC14/5 fusion are as follows: 14F (AGGATTTATTCTCCCATCTCGCT), 14R genes (GATGCTGATGGCGAGGTTCTG), 5F (GTGGTTCTGACATCTCACCTCATC), and 5R(CCTGAAGATGGTGATGGTCTG). Primer pair 14F + 14R was used for the amplification of a segment of SIGLEC14; primer pair 5F + 5R for SIGLEC5; and primer pair 14F + 5R for SIGLEC14/5. Each reaction tube contained the following (in 20 µl): genomic DNA, 100 ng; primers, 0.3 µM each; dNTP, 0.2 mM each; Expand High Fidelity enzyme (Roche Diagnostics, Basel, Switzerland), 0.49 U; in 1 × PCR plus MgCl₂ buffer (Roche). Thermal cycling parameters were as follows: 94°C, 2 min; (94°C, 15 s; 56°C, 30 s; 72°C, 1.5 min) × 10 cycles; (94°C, 15 s; 56°C, 30 s; 72°C, 1.5 min + 5 s/cycle) × 20 cycles; 72°C, 7 min.

Supplementary Figure Legend

Supplementary Figure 1. Correlation between SIGLEC14 genotype and the expression patterns of Siglec-14 and Siglec-5. (a) Expression patterns of Siglec-5 and Siglec-14 in wild-type individual. Reproduced from Yamanaka et al. (2009), Glycobiology 19, 841-846, with permission (Oxford University Press). Shown are staining of peripheral blood leukocytes (PBLs) with the specific anti-Siglec-5 and anti-Siglec-14 antibodies. Top panels: PBLs stained with a goat antibody recognizing only Siglec-5 (blue line), recognizing both Siglec-5 and -14 (green line), or with a negative control antibody (gray shaded area). Bottom panels: PBLs stained with a mouse monoclonal antibody recognizing only Siglec-14 (clone 40-1; red line) or both Siglec-5 and Siglec-14 (clone 194128, R&D Systems; green line), or with a negative control antibody (MOPC-21; gray shaded area). Results are displayed for each leukocyte population, which was defined by scatter profiles (granulocytes and monocytes) or positive staining with the respective lineage marker (lymphocyte subpopulations). (b) Schematic representation of SIGLEC5, SIGLEC14, and SIGLEC14/5 fusion genes and their respective products. (c) Patterns of Siglec-5 and Siglec-14 expressions in wild-type, heterozygous, and null individuals. THP-1 sub-lines to mimic monocytes of each genotype are shown below.



		WT			Hetero			Null	
Cell type	Gr	Mono	В	Gr	Mono	В	Gr	Mono	В
Siglec-5	+	-	+	+	+	+	+	+	+
Siglec-14	+	+	-	+	+	-	-	-	-
	Sigl	ec-14+57	/THP-1	Siglec-14+5+/THP-1			Siglec-14 ⁻ 5 ⁺ /THP-1		