SONY

Product Data Sheet

PE/Cyanine7 anti-human CD328 (Siglec-7)

Catalog # / Size: 2296060 / 100 tests
2296055 / 25 tests

Clone: 6-434

Isotype: Mouse IgG1, κ

Immunogen: Mouse thymus or spleen

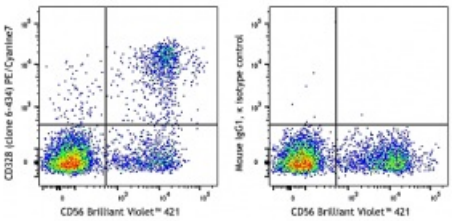
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions. The solution is free of unconjugated PE/Cyanine7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Workshop Number: VIII 80652

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD56 Brilliant Violet 421™ and CD328 (Siglec-7) (clone 6-434) PE/Cyanine7 (left) or mouse IgG1, κ PE/Cyanine7 isotype contrl (right).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation[1], and immunohistochemistry[2] of acetone-fixed frozen tissue sections, zinc-fixed paraffin-embedded sections and formalin-fixed paraffin-embedded sections.

Application References:

1. Ledbetter JA, *et al.* 1979. *Immunol. Rev.* 47:63. (IP)
2. Ledbetter JA, *et al.* 1980. *J. Exp. Med.* 152:280. (FC, IHC)
3. Bourdeau A, *et al.* 2007. *Blood* doi:10.1182/blood-2006-08-044370.

Description: Siglec-7, also known as p75/AIRM1, is a 75 kD type I transmembrane protein and a member of the family of sialic acid-binding immunoglobulin-like lectins (Siglecs). It is primarily found on NK cells and monocytes. The cytoplasmic domain of Siglec-7 contains immunoreceptor tyrosine-based inhibitory motif (ITIM). CD328 mediates sialic acid-dependent cell-cell binding and functions as an inhibitory receptor of NK cells. CD328 preferentially binds to sialylated glycans with α2,8 disialyl and α2,6 sialyl residues.

Antigen References:

1.Avril T, *et al.*. 2006. *Infection and Immunity* 74:4133
2.Avril T, *et al.*. 2004. *J. Immunol.* 173:6841
3.Yamaji T, *et al.*. 2005. *Glycobiology* 15:667

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com