

**Alexa Fluor® 700 anti-human CD328 (Siglec-7)**

**Catalog # / Size:** 2296050 / 100 tests  
2296045 / 25 tests

**Clone:** 6-434

**Isotype:** Mouse IgG1, κ

**Immunogen:** Mouse thymus or spleen

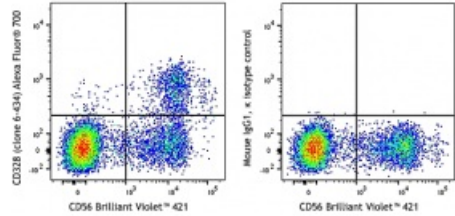
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 700.

**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) Alexa Fluor® 700 (left) or Mouse IgG1, κ Alexa Fluor® 700 isotype control (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.

\* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>1</sup>, and immunohistochemistry<sup>2</sup> 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** 1. Avril T, et al.. 2006. *Infection and Immunity* 74:4133
- References:** 2. Avril T, et al.. 2004. *J. Immunol.* 173:6841
3. Yamaji T, et al.. 2005. *Glycobiology* 15:667