

**APC anti-human CD54**

**Catalog # / Size:** 2365560 / 100 tests  
2365555 / 25 tests

**Clone:** HA58

**Isotype:** Mouse IgG1, κ

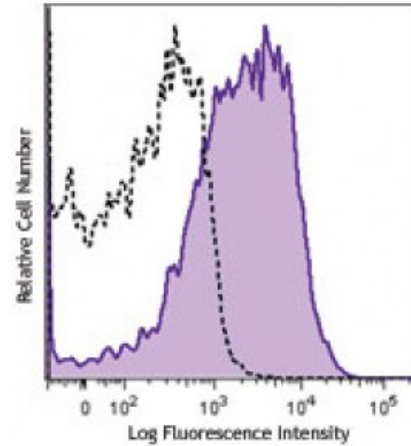
**Immunogen:** Colonic cancer BM314 cells

**Reactivity:** Human

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

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

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with CD54 (clone HA58) APC (filled histogram) or mouse IgG1, κ APC isotype control (open histogram).

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Clone HA58 recognizes an epitope located in the extracellular D1 domain of CD54.3

- Application References:**
1. Tsujisaki M, *et al.* 1991. *Clin. Exp. Immunol.* 85:3.
  2. Kanwar JR, *et al.* 2003. *Cancer Gene Ther.* 10:468.
  3. Kohka H, *et al.* 1998. *J. Leukoc. Biol.* 64:519.
  4. Armour KL, *et al.* 2014. *PLoS One.* 9:109463. [PubMed](#)
  5. Skrnjug I, *et al.* 2014. *PLoS One.* 9:110150. [PubMed](#)

**Description:** CD54 is a 85-110 kD type I transmembrane protein also known as ICAM-1. It is expressed on activated endothelial cells, high endothelial venules, T and B cells, monocytes/macrophages, granulocytes, and dendritic cells. The expression of ICAM-1 can be released from the cell surface. CD54 plays a role in cellular adhesion and is involved in inflammation and leukocyte extravasation. CD54 has also been shown to be the major cellular receptor for rhinovirus. ICAM-1 binds to CD11a/CD18 (LFA-1), CD11b/CD18 (Mac-1), CD11c/CD18 (p150, 95) as well as hyaluronan and fibrinogen.

- Antigen References:**
1. Voraberger G, *et al.* 1991. *J. Immunol.* 147:2777.
  2. Staunton DE, *et al.* 1988. *Cell* 52:925.
  3. Greve JM, *et al.* 1989. *Cell* 56:839.