

**PE/Cy7 anti-human CD137L (4-1BB Ligand)**

**Catalog # / Size:** 2157560 / 100 tests  
2157555 / 25 tests

**Clone:** 5F4

**Isotype:** Mouse IgG1, κ

**Immunogen:** Mouse CXCR3-transfectants

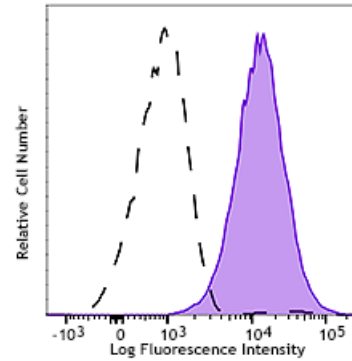
**Reactivity:** Human, Non-human primate, Other

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 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:** IV M141

**Concentration:** Lot-specific



Human T lymphoblastic leukemia cell line, Hut-78, was stained with CD137L (clone 5F4) PE/Cy7 (filled histogram) or mouse IgG1, κ PE/Cy7 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. 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. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** For most successful immunofluorescent staining results, it may be important to maximize signal over background by using a relatively bright fluorochrome-antibody conjugate (Cat. No. 2157520) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated anti-mouse IgG second step (Cat. No. 2626515), followed by SAv-PE (Cat. No. 2626020)).

- Application References:**
1. Akiba H, *et al.* 2000. *J. Exp. Med.* 191:375.
  2. Pollak KE, *et al.* 1995. *Eur. J. Immunol.* 25:488.
  3. DeBenedette MA, *et al.* 1997. *J. Immunol.* 158:551.
  4. Goodwin RG, *et al.* 1993. *Eur. J. Immunol.* 23:2631.

**Description:** 4-1BB ligand, also known as CDw137L, is a 97 kD member of the TNF superfamily mainly expressed on APCs, activated B and T cells. It has been reported to be important in T cell proliferation and cytokine production through interaction with 4-1BB receptor. 4-1BB ligand appears to be able to act as a costimulatory molecule without the engagement of other costimulatory molecules such as CD28.

- Antigen References:**
1. Akiba H, *et al.* 2000. *J. Exp. Med.* 191:375.
  2. Pollak KE, *et al.* 1995. *Eur. J. Immunol.* 25:488.
  3. DeBenedette MA, *et al.* 1997. *J. Immunol.* 158:551.
  4. Goodwin RG, *et al.* 1993. *Eur. J. Immunol.* 23:2631.