

PE/Cy7 anti-human CD218a (IL-18R α)

Catalog # / 2169055 / 25 tests
Size: 2169060 / 100 tests

Clone: H44

Isotype: Mouse IgG1, κ

Immunogen: Human NK cell line NK0 constitutively expressing IL-18 receptors

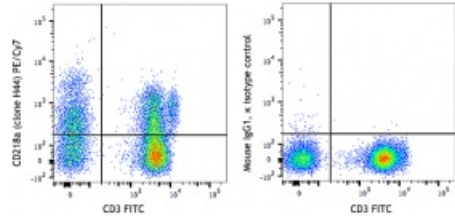
Reactivity: Human, Non-human primate, Other

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: HCDM listed

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 FITC and anti-human CD218a (IL-18R α) (clone H44) PE/Cy7 (left) or mouse IgG1, κ PE/Cy7 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 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.

Application Notes: The H44 antibody is specific for IL-18 receptor α chain. Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen sections and neutralization¹.

Application References:

1. Kitasato Y, *et al.* 2004. *Am. J. Respir. Cell Mol. Biol.* 31:619. (IHC)
2. Vermot-Desroches C, *et al.* 2005. *Cell Immunol.* 236:101. (FC)

Description: IL-18 receptor is composed of an α and a β subunit that combine to form a high affinity receptor for IL-18. IL-18 receptor α chain, also known as CDw218a, is a 75-80 kD type I transmembrane protein. It is expressed on NK cells, neutrophils, endothelial cells, and subsets of T and B cells. The expression of CDw218a on lymphocytes is upregulated after activation. The interaction of IL-18 and IL-18 receptor has been reported to be implicated in promotion of Th1 cytokine production and atherogenesis.

Antigen References:

1. Torigoe K, *et al.* 1997. *J. Biol. Chem.* 272:25737.
2. Gerdes N, *et al.* 2002. *J. Exp. Med.* 195:245.
3. Airoidi I, *et al.* 2000. *J. Immunol.* 165:6880.