

**PE/Cy7 anti-human CD218a (IL-18R $\alpha$ )**

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

**Clone:** H44

**Isotype:** Mouse IgG1,  $\kappa$

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

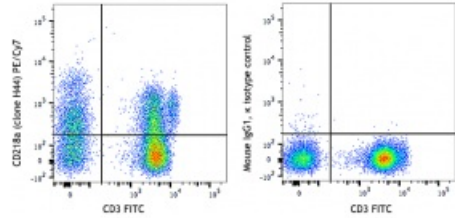
**Reactivity:** Human, Non-human primate, Other

**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 $\alpha$ ) (clone H44) PE/Cy7 (left) or mouse IgG1,  $\kappa$  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  $\mu$ l per million cells in 100  $\mu$ l staining volume or 5  $\mu$ l per 100  $\mu$ l of whole blood.

**Application Notes:** The H44 antibody is specific for IL-18 receptor  $\alpha$  chain. Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen sections and neutralization<sup>1</sup>.

**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  $\alpha$  and a  $\beta$  subunit that combine to form a high affinity receptor for IL-18. IL-18 receptor  $\alpha$  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.