

FITC anti-human CD218a (IL-18R α) Antibody

| | |
|--------------------------|---|
| Catalog# / Size | 313810 / 100 tests |
| Clone | H44 |
| Regulatory Status | RUO |
| Workshop | HCDM listed |
| Other Names | IL-18 receptor alpha chain, IL-18 receptor 1, IL-18 receptor related protein, CDw218a |
| Isotype | Mouse IgG1, κ |
| 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. |

Product Details

| | |
|---|--|
| Verified Reactivity | Human, Cynomolgus, Rhesus |
| Reported Reactivity | African Green, Baboon |
| Antibody Type | Monoclonal |
| Host Species | Mouse |
| Immunogen | Human NK cell line NK0 constitutively expressing IL-18 receptors |
| Formulation | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA) |
| Preparation | The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. |
| Concentration | Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.) |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze. |
| Application | FC - Quality tested |
| 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 neutralization ¹ . |
| Application References | 1. Kitasato Y, <i>et al.</i> 2004. <i>Am. J. Respir. Cell Mol. Biol.</i> 31:619. (IHC) 2. Vermot-Desroches C, <i>et al.</i> 2005. <i>Cell Immunol.</i> 236:101. (FC) |
| (PubMed link indicates BioLegend citation) | |
| Product Citations | 1. Tan H, <i>et al.</i> 2016. <i>J Immunol.</i> 196: 4052 - 4063. PubMed 2. Poulsen L 2012. <i>J Immunol.</i> 189:4431. PubMed 3. Jiang J, <i>et al.</i> 2016. <i>Sci Rep.</i> 6: 32320. PubMed |
| RRID | AB_2123648 (BioLegend Cat. No. 313810) |

Antigen Details

| | |
|---------------------------|---|
| Structure | Type I membrane protein, IL-1 receptor family, approximately 75-80 kD |
| Distribution | Expressed on NK cells and neutrophils, IL-12 activated T and B cells, endothelial cells, and smooth muscle cells; highly expressed on Hodgkin's disease cell lines |
| Function | Binds IL-18 with low affinity; high affinity binding site formed with IL-18R β |
| Ligand/Receptor | IL-18 |
| Cell Type | B cells, Endothelial cells, Neutrophils, NK cells, T cells |
| Biology Area | Immunology, Innate Immunity |
| Molecular Family | CD Molecules, Cytokine/Chemokine Receptors |
| Antigen References | 1. Torigoe K, <i>et al.</i> 1997. <i>J. Biol. Chem.</i> 272:25737. 2. Gerdes N, <i>et al.</i> 2002. <i>J. Exp. Med.</i> 195:245. 3. Airoidi I, <i>et al.</i> 2000. <i>J. Immunol.</i> 165:6880. |
| Gene ID | 8809 |

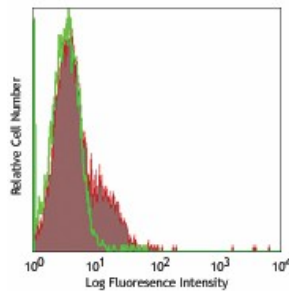
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD218a (IL-18R α), Biotin anti-human CD218a (IL-18R α), PE anti-human CD218a (IL-18R α), FITC anti-human CD218a (IL-18R α), PE/Cyanine7 anti-human CD218a (IL-18R α), APC anti-human CD218a (IL-18R α), TotalSeq™-A0862 anti-human CD218a (IL-18R α), TotalSeq™-C0862 anti-human CD218a (IL-18R α)

Product Data



Human peripheral blood lymphocytes stained with H44 FITC

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587