Datasheet for ABIN2749105

anti-IL9 Receptor antibody (PE)

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Overview

Quantity:	100 tests
Target:	IL9 Receptor (IL9R)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IL9 Receptor antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Human CD129-transfected cell line
Clone:	AH9R7
Isotype:	IgG2b kappa
Specificity:	The mouse monoclonal antibody AH9R7 recognizes an extracellular epitope of CD129 / IL-9R alpha, a 57 kDa type I transmembrane glycoprotein expressed at low levels by lymphocytes, blood cell progenitors, eosinophils, mast cells, epithelial cells, muscle cells and neurons.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	IL9 Receptor (IL9R)

Target Details

Alternative Name:	CD129 / IL-9R alpha (IL9R Products)
Background:	Interleukin 9 receptor,CD129 serves as the high affinity alpha subunit of IL-9 receptor. It associates with CD132, the common gamma chain shared by receptors of many different cytokines. CD129 is expressed at low levels by T and B cells, blood cell progenitors, eosinophils, mast cells, epithelial cells, muscle cells and neurons. Its signaling (through JAK/STAT pathways) results in proliferative and anti-apoptotic response, which is critical e.g. for intrathymic T cell development and survival of various cell types. The gene for CD129 is located at the pseudoautosomal regions of X and Y chromosomes and it may be related with the development of asthma.,IL9R
Gene ID:	3581
UniProt:	Q01113
Pathways:	JAK-STAT Signaling, Growth Factor Binding

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

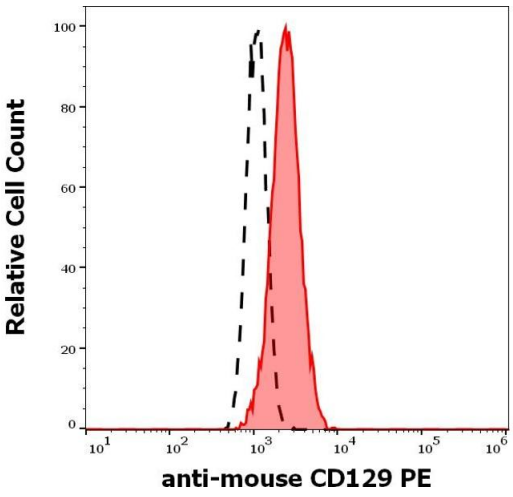
Product cited in:

Pilette, Ouadrhiri, Van Snick, Renauld, Staquet, Vaerman, Sibille: "Oxidative burst in lipopolysaccharide-activated human alveolar macrophages is inhibited by interleukin-9." in: **The European respiratory journal**, Vol. 20, Issue 5, pp. 1198-205, (2002) (PubMed).

Pilette, Ouadrhiri, Van Snick, Renauld, Staquet, Vaerman, Sibille: "IL-9 inhibits oxidative burst and TNF-alpha release in lipopolysaccharide-stimulated human monocytes through TGF-beta." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 168, Issue 8, pp. 4103-11, (2002) (PubMed).

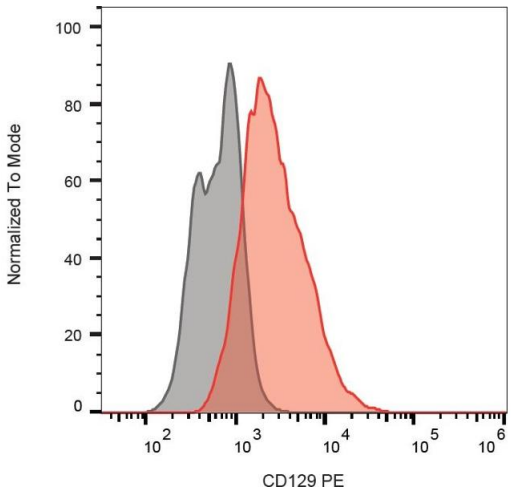
De Smedt, Verhasselt, Kerre, Vanhecke, Naessens, Leclercq, Renauld, Van Snick, Plum: "Signals from the IL-9 receptor are critical for the early stages of human intrathymic T cell development. " in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 164, Issue 4, pp. 1761-7, (2000) (PubMed).

Images



Flow Cytometry

Image 1. Separation of HUT-78 cells stained using anti-human CD129 (AH9R7) PE antibody (10 µL reagent per million cells in 100 µL of cell suspension, red-filled) from HUT-78 cells stained using mouse IgG2b isotype control (MPC-11) PE antibody (concentration in sample 5 µg/mL, same as CD129 PE antibody concentration, black-dashed) in flow cytometry analysis (surface staining).



Flow Cytometry

Image 2. Separation of HuT-78 cells stained using anti-human CD129 (AH9R7) PE antibody (concentration in sample 9 µg/mL, red) from unstained HuT-78 cells (grey) in flow cytometry analysis (surface staining).