

TECHNICAL DATA SHEET

CyFlow™ CD129 PE Anti-Hu; Clone AH9R7

REF CE042379

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD129
Alternative Names	IL-9Ra, IL9R
Clone	AH9R7
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG2b
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Human CD129-transfected cell line

Specificity

The mouse monoclonal antibody AH9R7 recognizes CD129 antigen, 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.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD129 serves as the high affinity α subunit of IL-9 receptor (IL-9R α). It associates with CD132, the common γ 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.

References

- Grasso L, Huang M, Sullivan CD, Messler CJ, Kiser MB, Dragwa CR, Holroyd KJ, Renauld JC, Levitt RC, Nicolaides NC: Molecular analysis of human interleukin-9 receptor transcripts in peripheral blood mononuclear cells: Identification of a splice variant encoding for a nonfunctional cell surface receptor. J Biol Chem. 1998 Sep 11; 273(37):24016-24. < PMID: 9727018 >
- De Smedt M, Verhasselt B, Kerre T, Vanhecke D, Naessens E, Leclercq G, Renauld JC, Van Snick J, Plum J: Signals from the IL-9 receptor are critical for the early stages of human intrathymic T cell development. J Immunol. 2000 Feb 15; 164(4):1761-7. < PMID: 10657622 >

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

- Pilette C, Ouadrhiri Y, Van Snick J, Renauld JC, Staquet P, Vaerman JP, Sibille Y: IL-9 inhibits oxidative burst and TNF-alpha release in lipopolysaccharide-stimulated human monocytes through TGF-beta. J Immunol. 2002 Apr 15; 168(8):4103-11. < PMID: 11937570 >
- Pilette C, Ouadrhiri Y, Van Snick J, Renauld JC, Staquet P, Vaerman JP, Sibille Y: Oxidative burst in lipopolysaccharide-activated human alveolar macrophages is inhibited by interleukin-9. Eur Respir J. 2002 Nov; 20(5):1198-205. < PMID: 12449174 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com