

## TECHNICAL DATA SHEET

### CyFlow™ CD129 Purified Anti-Hu; Clone AH9R7

**REF** CK552929

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

### Specifications

|                                    |                                   |
|------------------------------------|-----------------------------------|
| <b>Antigen</b>                     | CD129                             |
| <b>Alternative Names</b>           | IL-9Ra, IL9R                      |
| <b>Clone</b>                       | AH9R7                             |
| <b>Clonality</b>                   | monoclonal                        |
| <b>Format</b>                      | Purified                          |
| <b>Host / Isotype</b>              | Mouse / IgG2b                     |
| <b>Species Reactivity</b>          | Human                             |
| <b>Negative Species Reactivity</b> | —                                 |
| <b>Quantity [Concentration]</b>    | 0.1 mg [ 1 mg/ml ]                |
| <b>Immunogen</b>                   | 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:

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## Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Functional assays
- Enzyme-linked immunosorbent assay

## Storage Buffer

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

## Storage and Stability

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

## Background Information

CD129 serves as the high affinity  $\alpha$  subunit of IL-9 receptor (IL-9R  $\alpha$ ). 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.

## 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 >

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- 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 >

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The Safety Data Sheet for this product is available at [www.sysmex-partec.com/services](http://www.sysmex-partec.com/services).

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