

1P-788-T025

Monoclonal Antibody to CD129 / IL-9R alpha Phycoerythrin (PE) conjugated (25 tests)

Clone:	AH9R7
Isotype:	Mouse IgG2b
Specificity:	The mouse monoclonal antibody AH9R7 recognizes 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.
Regulatory Status:	RUO
Immunogen:	Human CD129-transfected cell line
Species Reactivity:	Human
Preparation:	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.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry 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 (0.25 ml) is sufficient for 25 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.

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Antibodies

References:

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.

*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.

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.

*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.

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EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz