EXBIO Antibodies

PRODUCT DATA SHEET

11-788-C025

Monoclonal Antibody to CD129 / IL-9R alpha Purified Antibody (0.025 mg)

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
Application:	Flow Cytometry Application note:it is recommended to use bright fluorochromes or signal multiplying detection ELISA Functional Application blocking
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8ºC. Do not freeze. Do not use after expiration date stamped on vial label.
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.

For laboratory research only, not for drug, diagnostic or other use.

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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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