Technical Data Sheet

Purified NA/LE Mouse anti-Human IL-9 Receptor Alpha (CD129)

Product Information

Material Number:	563606		
Alternate Name:	CD129; Interleukin-9 receptor; IL-9R alpha chain; IL-9Rα		
Size:	0.5 mg		
Clone:	AH9R7		
Immunogen:	Human IL9R Transfected Cell Line		
Isotype:	Mouse IgG2b, ĸ		
Reactivity:	QC Testing: Human		
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative,		
-	0.2µm sterile filtered. Endotoxin level is \leq 0.01 EU/µg (\leq 0.001 ng/µg) of		
	protein as determined by the LAL assay.		

Description

The AH9R7 monoclonal antibody specifically binds to the Interleukin-9 Receptor (IL-9R, IL-9Ra) also known as CD129. CD129 is a Type I transmembrane glycoprotein and a Type I Cytokine Receptor (Hemopoietin) Superfamily member. The high-affinity, signaling IL-9 Receptor complex is comprised of CD129 (IL-9 Receptor alpha chain subunit) and CD132 (common γ chain/ γ c). CD129 is expressed by hematopoietic progenitors, thymocytes, T cells, B cells, macrophages, eosinophils, mast cells, epithelia cells, muscle cells and neurons. IL-9 signals through the IL-9R complex (ie, through JAK, STAT and related signal pathways) to regulate the growth, proliferation, differentiation and survival of myeloid and erythroid progenitor cells, thymocytes, T cells, B cells and some tumor cells.

Preparation and Storage

Store undiluted at 4°C.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

Flow cytometry	Routinely Tested
Neutralization	Reported

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results. 1.
- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

De Smedt M, Verhasselt B, Kerre T, et al. Signals from the IL-9 receptor are critical for the early stages of human intrathymic T cell development. J Immunol. 2000; 164(4):1761-1767. (Clone-specific: Inhibition)

Demoulin JB, Uyttenhove C, Van Roost E, et al. A single tyrosine of the interleukin-9 (IL-9) receptor is required for STAT activation, antiapoptotic activity, and growth regulation by IL-9. Mol Cell Biol. 1996; 16(9):4710-4716. (Clone-specific: Flow cytometry, Immunoprecipitation)

Grasso L, Huang M, Sullivan CD, et al. 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; 273(37):24016-24024. (Clone-specific: Flow cytometry, IC/FCM Block, Immunohistochemistry, Immunoprecipitation)

Pilette C, Ouadrhiri Y, Van Snick J, et al. IL-9 inhibits oxidative burst and TNF-alpha release in lipopolysaccharide-stimulated human monocytes through

TGF-beta. J Immunol. 2002; 168(8):4103-4111. (Clone-specific: Flow cytometry, Inhibition)

Pilette C, Ouadrhiri Y, Van Snick J, et al. Oxidative burst in lipopolysaccharide-activated human alveolar macrophages is inhibited by interleukin-9. Eur Respir J. 2002; 20:1198-1205. (Clone-specific: Functional assay, Inhibition)

Wilhelm C, Turner JE, Van Snick J, Stockinger B. The many lives of IL-9: a question of survival?. Nat Immunol. 2012; 13(7):637-641. (Biology)

BD Biosciences bdbiosciences.com							
877.232.8995	800.979.9408	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995		
For country co	ntact informatio	on, visit bdbiosci	ences.com/conta	ict			
Conditions: The in	nformation disclose	ed herein is not to b	e constructed as a n	ecommendation to u	use the above product in violation		
of any patents. Bit	D Biosciences will n	ot be help responsi	ble for patent infrin	gement or other vic	plations that may occur with the		
use of our product	ts. Purchase does r	not include or carry	any right to resell o	r transfer this produ	ct either as a stand-alone		



product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is stictly prohibited. For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale. Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2011 BD