

Human IL-9 R Antibody

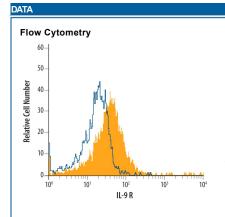
Monoclonal Mouse IgG₁ Clone # 33423 Catalog Number: MAB290

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human IL-9 R in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) IL-4 R, rhIL-5 Rα, rhIL-5 Rβ, rhIL-13 Rα1, rhIL-13 Rα2, or recombinant mouse IL-9 R is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 33423
Purification	Protein A or G purified from ascites
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human IL-9 R
Endotoxin Level	<0.10 EU per 1 μg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

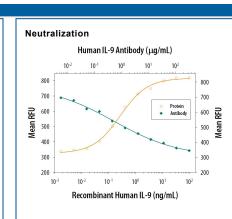
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Sample Concentration	
Flow Cytometry	0.25 μg/10 ⁶ cells See Below	
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interwith conjugation.	fere
Neutralization	Measured by its ability to neutralize IL-9-induced proliferation in the MO7e human megakaryocytic leukemic line. Avanzi, G. <i>et al.</i> (1988) Br. J. Haematol. 69 :359. The Neutralization Dose (ND ₅₀) is typically 2-4 μg/mL presence of 2 ng/mL Recombinant Human IL-9.	



Detection of IL-9 R in Human Monocytes by Flow Cytometry. Human whole blood monocytes were stained with Mouse Anti-Human IL-9 R Subunit Monoclonal Antibody (Catalog # MAB290, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG F(ab')₂ Secondary Antibody (Catalog # F0102B).



Cell Proliferation Induced by IL-9 and Neutralization by Human IL-9 R Antibody. Recombinant Human IL-9 (Catalog # 209-IL) stimulates proliferation in the MO7e human megakaryocytic leukemic cell line in a dose-dependent manner (orange line). Proliferation elicited by Recombinant Human IL-9 (2 ng/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human IL-9 R Subunit Monoclonal Antibody (Catalog # MAB290). The ND₅₀ is typically 2-4 µg/mL.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Interleukin 9 Receptor (IL-9 R) belongs to the hematopoietin receptor superfamily and is the binding subunit of the heterodimeric IL-9 receptor complex. The other subunit is the common y chain shared with the receptors for IL-2, IL-4, IL-7, and IL-15. IL-9 R is expressed by T cells, neutrophils, mast cells, and macrophages.

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