

# **Human IL-9 Antibody**

Monoclonal Mouse IgG<sub>2B</sub> Clone # 623153 Catalog Number: MAB209

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human IL-9 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant rat IL-9 or recombinant mouse IL-9 is observed.	
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 623153	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human IL-9 Gln19-lle144 Accession # P15248	
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.	

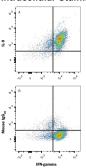
## **APPLICATIONS**

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 Concentration	Sample
Intracellular Staining by Flow Cytometry	2.5 μg/10 <sup>6</sup> cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

#### DATA

#### Intracellular Staining by Flow Cytometry



Detection of IL-9 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) were treated with platebound anti-CD3 Monoclonal Antibody (5 μg/ml) and anti-CD28 Monoclonal Antibody (2 µg/ml), Recombinant Human IL-4 (Catalog # 204-IL,10 ng/ml), and anti-Human IFN-γ Monoclonal Antibody (Catalog # AF-285-NA, 20 µg/ml) for 5 days and stained with (A) Mouse Anti-Human IL-9 Monoclonal Antibody (Catalog # MAB209) or (B) Mouse IgG2B Isotype Control Antibody (Catalog # MAB0041) followed by Allophycocyanin-conjugated anti-Mouse IgG Secondary Antibody (Catalog # F0101B) and Mouse Anti-Human IFN-y Phycoerythrin-conjugated Monoclonal Antibody (Catalog # IC285P). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). Staining was performed using our Staining Intracellular Molecules protocol.

### PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL

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

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 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 (IL-9) is a 14 kDa glycosylated cytokine that is secreted by CD4<sup>+</sup> Th2 cells. It supports the growth of multiple hematopoietic cell types including Th cells, germinal center B cells, macrophages, mast cells, neutrophils, megakaryocytes, and erythrocytes. IL-9 exerts its biological effects through a receptor complex composed of IL-9 R and the common gamma chain. Mature human IL-9 shares 57% amino acid sequence identity with mouse and rat IL-9.

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