

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 _{2B} Clone # 623153
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human IL-9 Gln19-Ile144 Accession # P15248
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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	0.25-1 µg/10 ⁶ cells	Human PBMC treated with PMA and calcium ionomycin, fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005)

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Interleukin-9 (IL-9) is a 14 kDa glycosylated cytokine that is secreted by CD4⁺ 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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