

DESCRIPTION

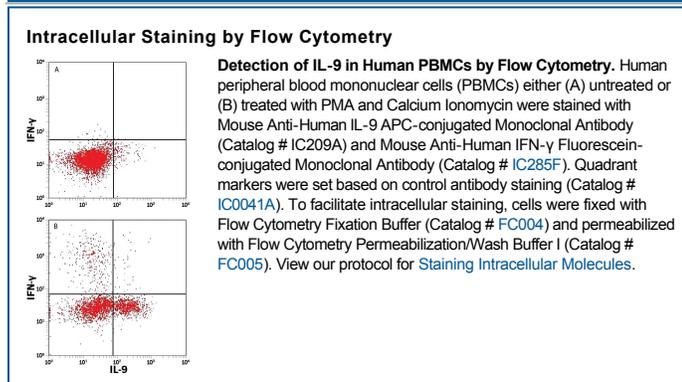
Species Reactivity	Human
Specificity	Detects human IL-9 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant rat IL-9 or recombinant mouse IL-9 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 623153
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human IL-9 Gln19-Ile144 Accession # P15248
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied 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	10 µL/10 ⁶ cells	See Below

DATA



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 28-30 kDa monomeric glycosylated polypeptide that belongs to the IL-7/IL-9 family of proteins. Although multiple cell types are reported to express IL-9, including Th17 cells, eosinophils, basophils, NK T cells and mast cells, the two cell types possibly most central to the process are Th9 and ILC-2 (or innate lymphoid cell type 2) cells. IL-9 supports the growth of multiple hematopoietic cell types including germinal center B cells, macrophages, mast cells, neutrophils, megakaryocytes, and erythrocytes. It also promotes IgE production, the activation and chemoattraction of mast cells, mucus production by epithelium, Th17 cell proliferation and TGF-β production by dendritic cells. 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.