

# Product Data Sheet

## APC anti-mouse IL-9

**Catalog # / Size:** 514105 / 25 µg

**Clone:** RM9A4

**Isotype:** Rat IgG1, κ

**Immunogen:** Recombinant full length mouse IL-9

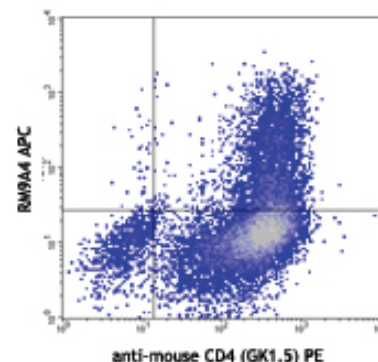
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.2 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



CD4+ T cells from C57BL/6 mouse were cultured with anti-mouse CD3 and CD28 in the presence of recombinant IL-4 and TGF-beta for three days. Intracellular staining was performed following 5 hour restimulation with PdBU, Ionomycin, and brefeldin

## Applications:

**Applications:** ICFC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.06 µg per 10<sup>6</sup> cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** See the protocol for Th9 polarization of mouse splenocytes.

**Application References:** 1. Angkasekwinai P, *et al.* 2010. *Nat. Immunol.* 11:250. (ICFC) PubMed  
 2. Chang HC, *et al.* 2010. *Nat. Immunol.* 11:527. (ICFC) PubMed

**Description:** IL-9 is a potent, T cell-derived, T cell growth factor which can also enhance mast cell activity and IL-3- or IL-4- dependent proliferation of bone marrow-derived mast cells. IL-9 synergizes with erythropoietin to promote erythroid colony formation. IL-9 induces high affinity IgE receptor expression and granzyme A and B in murine T helper clones. The RM9A4 antibody reacts with mouse IL-9.

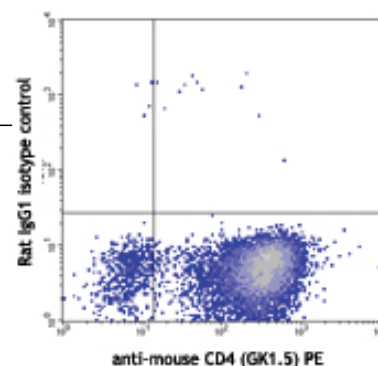
**Antigen References:** 1. Fitzgerald K, *et al.* Eds. 2001. *The Cytokine FactsBook*. Academic Press San Diego.  
 2. Quesniaux V, *et al.* 1992. *Research Immunology* 143:385.  
 3. Renaud J, *et al.* 1993. *Adv. Immunol.* 54:79.  
 4. Yang Y, *et al.* 1992. *Leuk. Lymphoma* 8:441.

### Related Products:

Product  
 APC Rat IgG1, κ Isotype Ctrl  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)

Clone  
 RTK2071

Application  
 FC, ICFC  
 FC, ICC, ICFC  
 FC, ICFC



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