

Rat Anti-IL4 Monoclonal Antibody

Cat. No. DMABT-H19229 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat Anti-IL4 Monoclonal Antibody
Species	Human
Source	Rat
Antigen Description	IL-4 is a pleiotropic cytokine that is produced by activated T cells, mast cells, and basophils. IL-4 elicits many different biological responses but has two dominant functions. The first is regulating differentiation of naïve CD4 ⁺ T cell to the Th2 type. Th2 cells produce IL-4, IL-5, IL-10, and IL-13, which tend to favor a humoral immune response while suppressing a cell-mediated immune response controlled by Th1 cells. The second is regulating IgE and IgG1 production by B cells.
Target	IL4
Immunogen	CHO-expressed, recombinant human IL-4
Isotype	IgG1, kappa
species	Human
Clone	NQ5-36E3
Conjugation	Alexa Fluor 488

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Applications	N/A
Preparation	The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor 488.
Usage recommendation	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 5 µl per 10 ⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.* Alexa Fluor 488 has a maximum emission of 519 nm when it is excited at 488 nm.** Alexa Fluor is a registered trademark of Molecular Probes, Inc. Alexa Fluor dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents. View full statement regarding label licenses
Storage	The antibody solution should be stored undiluted at 4 °C and protected from prolonged exposure to light. Do not freeze.
Size	100 tests
GENE INFORMATION	
Gene Name	IL4 interleukin 4 [Homo sapiens]
Official Symbol	IL4
Synonyms	IL4; interleukin 4; interleukin-4; B cell growth factor 1; B_cell stimulatory factor 1; BCGF 1; BCGF1; BSF1; IL 4; lymphocyte stimulatory factor 1; MGC79402; binetrakin; pitrakinra; IL-4; BSF-1; BCGF-1;

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Gene ID	3565
mRNA Refseq	NM_000589
Protein Refseq	NP_000580
MIM	147780
UniProt ID	P05112
Chromosome Location	5q23-q31
Pathway	Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Asthma, organism-specific biosystem; Asthma, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; CD40/CD40L signaling, organism-specific biosystem;
Function	cytokine activity; growth factor activity; interleukin-4 receptor binding; protein binding;

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