

## Product datasheet for **TA388922**

### IL4 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	Sandwich ELISA: To detect Murine IL-4 by sandwich ELISA (using 100 ul/well antibody solution) a concentration of 0.25 – 1.0 µg/ml of this antibody is required. This biotinylated polyclonal antibody, in conjunction with ProSci's Polyclonal Anti-Murine IL-4 as a capture antibody, allows the detection of at least 0.2 – 0.4 ng/well of recombinant Murine IL-4. Western Blot To detect Murine IL-4 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 ug/ml. When used in conjunction with compatible secondary reagents the detection limit for recombinant Murine IL-4 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Produced from sera of rabbits pre-immunized with highly pure recombinant Murine IL-4. Anti-Murine IL-4 specific antibody was purified by affinity chromatography and then biotinylated.
Concentration:	lot specific
Purification:	IL-4 specific antibody was purified by affinity chromatography and then biotinylated
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Database Link:	<a href="#">P07750</a>



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**Background:**

IL-4 is a pleiotropic cytokine that regulates diverse T and B cell responses including cell proliferation, survival and gene expression. Produced by mast cells, T cells and bone marrow stromal cells, IL-4 regulates the differentiation of naive CD4+ T cells into helper Th2 cells, characterized by their cytokine-secretion profile that includes secretion of IL-4, IL-5, IL-6, IL-10, and IL-13, which favor a humoral immune response. Another dominant function of IL-4 is the regulation of immunoglobulin class switching to the IgG1 and IgE isotypes. Excessive IL-4 production by Th2 cells has been associated with elevated IgE production and allergy. Recombinant Murine IL-4 is a 13.5 kDa globular protein containing 121 amino acid residues.