

Product datasheet for **SM1540A**

IL2 Mouse Monoclonal Antibody [Clone ID: 4F12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4F12
Applications:	ELISA, FN
Recommended Dilution:	ELISA: 5-10 µg as capture antibody. Functional Assays: 2-20 µg/ml.
Reactivity:	Chicken, Mammalian, Birds
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant Chicken IL-2.
Specificity:	This antibody SM1540A recognises natural and recombinant IL-2 expressed in either <i>E.coli</i> or <i>CHO</i> cells. Clone <i>4F12</i> neutralises the proliferative activity of rchIL-2 and recognises a different epitope to Clone <i>10E7</i> product code (<i>Cat.-No</i> SM1539A). This antibody can be used as the Neutralising antibody for recombinant Chicken IL-2 bioassays (See Product code SA028).
Formulation:	PBS without preservatives State: Azide Free State: Liquid purified IgG fraction Stabilizer: None
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 2



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Database Link: [Entrez Gene 3558 Human P60568](#)

Background: Interleukin 2 (IL2) is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli. IL2 has been shown to have antitumor effects in some studies. This is probably mediated by cytotoxic effector cells.

Synonyms: IL-2, TCGF

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Allograft rejection, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Graft-versus-host disease, Jak-STAT signaling pathway, T cell receptor signaling pathway, Type I diabetes mellitus