

Product datasheet for **SM1320P**

IL12B Mouse Monoclonal Antibody [Clone ID: 1-1A4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1-1A4
Applications:	ELISA, IHC
Recommended Dilution:	Immunohistochemistry on frozen sections. ELISA: 1/1000 as detecting antibody.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant IL-12. Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2-O myeloma cell line.
Specificity:	This antibody recognises the p40 subunit of interleukin-12, and binds to both the free subunit and the p35/p40 heterodimer. The antibody reacts with both stimulated and unstimulated monocytes in immunohistology.
Formulation:	PBS, pH7.4 containing 0.09% Sodium Azide State: Purified State: Liquid purified IgG
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 12B
Database Link:	Entrez Gene 3593 Human P29460



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Background:	Interleukin 12 (IL12) can act as a growth factor for activated T and NK cells, enhance the lytic activity of NK/lymphokine activated killer cells, and stimulate the production of IFN gamma by resting PBMC. IL12 induces IFN gamma, TNF alpha production in T and NK cells; costimulation of PBL proliferation; proliferation/differentiation of TH1 T lymphocytes. It is downregulated by IL10; homodimeric p40 antagonistic to functional p70 heterodimer. IL12R beta 1 binds p40 but when dimeric with IL12R beta 2 binds p35.
Synonyms:	Interleukin-12B, IL-12B, IL-12 subunit p40, CLMF p40, NKSF2
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Allograft rejection, Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway, Type I diabetes mellitus