

Mouse Anti-IL-12 [JJ07]: MC0151, MC0151RTU7

Intended Use: For Research Use Only

Description: Interleukin-12 The interleukins (ILs) are a broad family of well characterized cytokines, primarily of hematopoietic cell origin. As new cytokines are molecularly characterized, they are assigned an IL number to maintain a standard nomenclature. ILs are secreted by immune cells (mainly macrophages, B cells or T cells) that regulate a wide range of immune system functions. The functions of different ILs vary from regulating inflammatory and immune responses, functioning as autocrine factor and regulating and/or inhibiting other ILs. IL-12 is secreted by macrophages and human B-lymphoblastoid cells in response to antigenic stimulation. It is responsible for the differentiation of naive CD4+ T cells into type 1 helper T cells that produce interferon- γ (IFN- γ). It also activates production of tumor necrosis factor α (TNF α) from T and natural killer (NK) cells, and it inhibits IL-4 mediated suppression of IFN- γ . IL-12 also has antiangiogenic activity, since the production of IFN- γ increases the production of inducible protein-10 (IP-10).

Specifications:

Clone: JJ07
Source: Mouse
Isotype: IgG1
Reactivity: Human
Localization: Secreted
Formulation: Antibody in PBS buffer pH7.4, containing gelatin and < 0.09% sodium azide (NaN3)
Storage: Store at 2°- 8°C
Applications: IHC, ELISA, ICC/IF, WB
Package:

Description	Catalog No.	Size
IL-12 Concentrated	MC0151	1 ml
IL-12 Prediluted	MC0151RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Intestine
Concentrated Dilution: 25-250
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.

References:

1. Proinflammatory cytokine expression profile in degenerated and herniated human intervertebral disc tissues. Shamji, M.F., et al. Arthritis Rheum. 62: 1974-1982, 2010.
2. The density of macrophages in the invasive front is inversely correlated to liver metastasis in colon cancer. Zhou, Q., et al. J. Transl. Med. 8: 13, 2010.
3. Experimental study of the protective effects of SYVN1 against diabetic retinopathy. Sci. Rep. 5: 14036, Yang, S., et al. 2015.