

Mouse Anti-IL-7 [D9]: MC0377

Intended Use: For Research Use Only

Description: Interleukin 7 (IL-7) is a hematopoietic cytokine that is constitutively produced by stromal cells from the bone marrow and thymus. IL-7 signals through the IL-7R to promote the differentiation of hematopoietic stem cells to lymphoid precursor cells, which give rise to T cells, B cells, and natural killer cells. Hematopoietic growth factor capable of stimulating the proliferation of lymphoid progenitors. It is important for proliferation during certain stages of B-cell maturation.

Specifications:

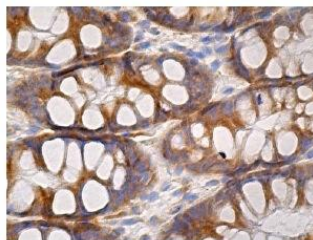
Clone: D9
Source: Mouse
Isotype: IgG1k
Reactivity: Human
Immunogen: Amino acids 27-177 of human IL-7
Localization: Cytoplasm, secreted
Formulation: Antibody in PBS buffer pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC, ELISA, IF, IP, WB
Package:

Description	Catalog No.	Size
IL-7 Concentrated	MC0377	1 ml

IHC Procedure*:

Positive Control Tissue: Spleen
Concentrated Dilution: 50-200
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.



FFPE human rectum stained with anti-IL-7 using DAB showing cytoplasmic staining of glandular cells

References:

1. Downregulation of IL-7 and IL-7R Reduces Membrane-Type Matrix Metalloproteinase 14 in Granular Corneal Dystrophy Type 2 Keratocyte. Kim SY, et al. Invest Ophthalmol Vis Sci. Nov 1;59(13):5693-5703, 2018.
2. Interleukin-7 up-regulates cyclin D1 via activator protein-1 to promote proliferation of cell in lung cancer. Ming J, et al. Cancer Immunol Immunother. Jan;61(1):79-88, 2012.
3. Recycled IL-7 Can Be Delivered to Neighboring T Cells. Bazdar DA, et al. J Immunol. May 15;194(10):4698-704, 2015.

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Rev. A