

Interleukin-10. Rat Monoclonal Antibody JES5-2A5 Mouse

IL-10, Cytokine synthesis inhibitory factor, CSIF

BACKGROUND

Inhibits the synthesis of a number of cytokines, including IFN-gamma, IL-2, IL-3, TNF and GM-CSF produced by activated macrophages and by helper T-cells. Defects in IL10 are a cause of susceptibility to Crohn disease (CD) [MIM:266600]. CD is a form of remitting inflammatory bowel disease (IBD). CD may involve any part of the gastrointestinal tract, but most frequently the terminal ileum and colon. Bowel inflammation is transmural and discontinuous. Crohn disease is commonly classified as autoimmune disease.

ORDERING INFORMATION

CATALOG NUMBER
X1913M

SIZE
0.5 mg

FORM
Unconjugated

HOST/CLONE
Rat Clone JES5-2A5

FORMULATION
Provided as sterile filtered solution in phosphate buffered saline pH 7.2

CONCENTRATION
1 mg/ml

ISOTYPE
IgG1

APPLICATIONS
ELISA, Neutralization

IMMUNOGEN

Purified recombinant mouse IL-10.

SPECIES REACTIVITY

Mouse

COMMENTS

Optimal concentration should be evaluated by serial dilutions. Immediately prior to use, dilute this preparation to a final concentration of 1–5 µg/mL, and coat each well of a microtiter plate with 100 µL. For neutralization studies, use a starting dilution of 10–20 µg/mL.

STORAGE

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

For research use only. Not for use in human diagnostics or therapeutics.

POSITIVE CONTROL/TISSUE EXPRESSION

Recognizes natural and recombinant mouse IL-10.

SHIP CONDITIONS

Ship on gel ice, store at -20°C immediately upon arrival

REFERENCES

Hunter, C. A. et al. (1995) IL-1 beta is required for IL-12 to induce production of IFN gamma by NK cells. A role for IL-1 beta in the T cell-independent mechanism of resistance against intracellular pathogens. *J. Immunol.* 155(9):4347–54.

Rohrer, J. W. and J. H. Coggin (1995) CD8 T cell clones inhibit antitumor T cell function by secreting IL-10. *J. Immunol.* 155(12):5719–27.

Shnyra, A. et al. (1998) Reprogramming of lipopolysaccharide-primed macrophages is controlled by a counterbalanced production of IL-10 and IL-12. *J. Immunol.* 160(8):3729–36.

Schwarz, A., S. Beissert, K. Grosse-Heitmeyer, M. Gunzer, J.A. Bluestone, S. Grabbe, T. Schwarz (2000) Evidence for functional relevance of CTLA-4 in ultraviolet-radiation-induced tolerance. *J. Immunol.* 165(4):1824–1831 (cites the use of this antibody for use in neutralization in vivo).

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