

Anti Human IL-2 Purified Monoclonal Mouse Antibody

Code: 211-44-132 **Lot no:**
Isotype: IgG2_a **Expiration:** 1 year from date of dispatch
Clone: N7.48A
Source: Tissue culture supernatant
Purification: Affinity chromatography
Quantity: 500 µg purified antibody in 0.5 ml PBS pH 7.4 with 0.1% (w/v) NaN₃.
Specificity: This antibody recognizes both the recombinant and the natural form of human IL-2 (1).

Applications: Flow cytometry: Intracellular staining of IL-2 producing cells was demonstrated for clone IK-N7.48A. Mitogen stimulated purified T cells were treated with saponin and monensin to yield a strong positive signal by flow cytometry (1,2). With the use of allergen specific T cell clones derived from patients with atopic dermatitis a high degree of correlation between ELISA measurement with respect to the pattern of cytokine (Th0, Th1 and Th2) production in the supernatants and intracellular FACS analysis was observed. Immunocytochemistry (ICC): Clone IK-N7.48A was used to study the kinetics of human IL-2 production in mitogen stimulated purified T cells by indirect immunofluorescence. A concentration of antibody of 0.5 µg/ml per 0.5 x 10⁶ cells permeabilized with saponin was used (3). Immunohistochemistry (IHC): Clone IK-N7.48A has been demonstrated to be useful for the staining of paraffin embedded tissues on human foetal brain (unpublished); it requires antigen unmasking by pre-treatment with microwave oven (5 minutes at 120°C). We recommend that each laboratory determine an optimum working titre for use in its particular application.

References: 1. Jung, T. et al.: "Interleukin-4 and interleukin-5 are rarely co-expressed by human T cells" *Eur. J. Immunol.* 25: 2413-2416 (1995).
2. Jung, T. et al.: "Detection of intracellular cytokines by flow cytometry" *J. Immunol. Meth.* 159: 197-207 (1993).
3. Andersson, U. et al.: "Simultaneous production of interleukin-2, interleukin-4 and interferon-g by activated human blood lymphocytes". *Eur. J. Immunol.* 20: 1591-1596 (1990).

Storage: For use within 1 month store at +4°C, for long term storage aliquot antibody into small volumes and store at -20°C. Avoid repeated freeze thaw cycles.

For Research Use Only. Not For Diagnostic or Therapeutic Use.

Conditions: The information disclosed herein is not to be considered as a recommendation to use the above product in violation of any patents. ImmunoKontakt will not be held responsible for patent infringement or other violations that may occur with the use of our products.

Caution: Sodium azide (NaN₃) yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive in plumbing.

Rev. Aug-09

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