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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-IL-2 [UFKA-20] Bulk Size Ab02947-3.0-BT

This chimeric mouse antibody was made using the variable domain sequences of the original Human IgG1 format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Mouse IgG2b, Kappa

Clone Number: UFKA-20

Alternative Name(s) of Target: IL2; IL-2; TCGF; Interleukin-2; T-cell growth factor; Aldesleukin

UniProt Accession Number of Target Protein: P60568

Published Application(s): ELISA, FC

Published Species Reactivity: Human

Immunogen: The original antibody was generated immunizing Balb/c mice with human IL-2.

Specificity: This antibody binds human IL-2. In particular, the antibody binds IL-2 dorsolaterally, with an angle of 55° counterclockwise to the vertical axis, contacting the C- and B-helices of IL-2 and thereby forming a “clamp” around the C-helix. The antibody engages IL-2 residues D84, N88, V91, E61, E68, and K64.

Application Notes: This antibody binds to Interleukin-2, a protein produced by T-cells in response to antigenic or mitogenic stimulation. IL-2/UFKA-20 complex shows an improved selectivity towards regulatory T cells compared to IL-2 alone. IL-2/UFKA-20 can recognize the receptor IL of regulatory T cells on the base of the presence of CD25, therefore called CD25 bias. IL-2/UFKA-20 complex is able to efficiently stimulate CD25+ Treg cells in mice and rhesus macaques in vivo as well as in humans ex vivo.

Antibody First Published in: Karakus et al. Receptor-gated IL-2 delivery by an anti-human IL-2 antibody activates regulatory T cells in three different species. *Sci Transl Med.* 2020 Dec 16;12(574):eabb9283.

[PMID:33328333](#)

Note on publication: The authors identified a anti-human IL-2 antibody which was particularly efficient in delivering IL-2 to cells expressing trimeric IL-2Rs. Further IL-2/UFKA-20 complex, crystal structure, mechanism of action are described.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without

added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.