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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-IL-2 [UFKA-20] Bulk Size Ab02947-3.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

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, [Fc Silent™](#), 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.