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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-IL-20 [20A10] Bulk Size Ab03712-2.3-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 is a reformatted mouse IgG2a Fc Silent™ antibody, based on the original mouse IgG4 format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG2a, Fc Silent™, Kappa

Clone Number: 20A10

Alternative Name(s) of Target: IL20; Interleukin-20; ZCYTO10; Cytokine Zcyto10

UniProt Accession Number of Target Protein: Q9NYY1

Published Application(s): inhibit, neutralize, therapeutic, ELISA

Published Species Reactivity: Human, Mouse

Immunogen: The original antibody was isolated from the serum of patients suffering from APECED (Autoimmune polyendocrinopathy candidiasis epidermal dysplasia, also called Autoimmune polyendocrinopathy type 1 (APS1) using a LIPS assay.

Specificity: This antibody binds a conformational epitope which can also be formed or mimicked by the human IL-20 derived peptide comprising amino acids 101-PDHYTLRKISSLANSLT-118. It also cross reacts with mouse IL-20. IL-20 is a pro-inflammatory and angiogenic cytokine mainly secreted by monocytes, granulocytes, dendritic cells and skin keratinocytes that plays crucial roles in immune responses, regulation of inflammatory responses, hemopoiesis, as well as epidermal cell and keratinocyte differentiation. IL-20 shows effects in several inflammatory diseases, such as rheumatoid arthritis, atherosclerosis, cancer, and liver fibrosis via regulating cytokines and chemokines. IL-20 acts on renal cells and contributes to inflammation, fibrosis, and apoptosis through its receptors IL-20R1, IL-20R2, and IL-22R1.

Application Notes: This antibody can bind a fusion protein of human IL-20 with Gaussia luciferase in a GLuc-sandwich ELISA. This antibody was capable of neutralizing recombinant IL-20 and IL-20 receptor mediated STAT3 activation and rhIL-20 and IL-20 receptor mediated induction of KZ136-NLuc Reporter Gene. The in vivo therapeutic effect of this antibody was studied using an ear inflammation assay in 8 weeks old C57BL/6J mice by intradermal injection of human cytokine IL-20. This antibody was successful in neutralizing the injected human IL-20 in a mouse model (US20170189524). The IgG4 version of this antibody binds human IL-20 with a very high binding affinity of $K_d = 91 \text{ fM}$ (PMID: 27426947).

Antibody First Published in: PMID:

Note on publication:

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.