



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-IL-20 [7E] Bulk Size Ab03713-10.3-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 human IgG1 Fc Silent Fc Silent™ antibody, based on the original human IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human IgG1, Fc Silent™, Kappa

**Clone Number:** 7E

**Alternative Name(s) of Target:** IL20; Interleukin-20; ZCYTO10; Cytokine Zcyto10; Mab 7E

**UniProt Accession Number of Target Protein:** Q9NYY1

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

**Published Species Reactivity:** Human

**Immunogen:** The original antibody was generated by immunizing BALB/c mice with recombinant human IL-20.

**Specificity:** This antibody binds human Interleukin-20 (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:** The binding characterization of this antibody towards human IL-20 was done using ELISA. This antibody inhibits IL-20 induced proliferation of calf pulmonary artery endothelial cells (CPAEs) and human HUVEC cells in vitro (US7786274). The therapeutic efficacy of this antibody was also tested in a collagen-induced arthritis (CIA) rat model. In vivo, treatment with 7E alone or in combination with etanercept significantly reduced the severity of arthritis by decreasing the hind paw thickness and swelling, preventing cartilage damage and bone loss, and reducing the expression of IL-20, IL-1 $\beta$ , IL-6, RANKL, and matrix metalloproteinases (MMPs) in synovial tissue. Selectively blocking IL-20 inhibited inflammation and bone loss in rats with CIA (PMID: 20722035).

**Antibody First Published in:** Hsiang Hsu et al. Interleukin-20 antibody is a potential therapeutic agent for experimental arthritis. *Arthritis Rheum.* 2010 Nov;62(11):3311-21. [PMID:20722035](#)

**Note on publication:** Determines the in vivo therapeutic efficacy of this antibody in a collagen-induced

arthritis (CIA) rat model.

## 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.