



# 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

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Rituximab (anti-CD20)

Cat. No.:	HY-P9913A
CAS No.:	174722-31-7
Molecular Weight:	144544.44
Target:	CD20
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

Description	Rituximab (anti-CD20) is an anti-CD20 chimeric monoclonal antibody used to treat certain autoimmune diseases and types of cancer <sup>[1]</sup> .
In Vitro	Rituximab (anti-CD20) inhibits the proliferation of stimulated human B cells, which is associated with a relative increase of B cells with an activated naive phenotype. Aside from this population shift, there are no major changes in phenotype or cytokine profile of the various B-cell subsets. B cells stimulated in the presence of rituximab induces stronger T-cell proliferation, compared to B cells stimulated in the absence of rituximab <sup>[1]</sup> . All lymphoma cells tested are equally sensitive to antibody-dependent cell-mediated cytotoxicity (ADCC), antibody-mediated phagocytosis of tumor cells, and rituximab-induced apoptosis. Rituximab (anti-CD20) induces high CDC killing of follicular lymphoma cells <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	A single injection of rituximab or the murine anti-CD20 Ab 1F5, given i.p. 1 day after the tumor, cures 100% of the animals. Depletion of either NK cells or neutrophils or both in tumor-injected animals does not affect the therapeutic activity of the drug. Similarly, rituximab is able to eradicate tumor cells in athymic nude mice, suggesting that its activity is T cell independent <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Signal Transduct Target Ther. 2020 Sep 14;5(1):200.
- Anal Chem. 2023 Apr 13.
- Anal Chim Acta. 2021, 338306.
- Cancer Biol Med. 2020 Nov 15;17(4):1026-1038.
- J Immunol Methods. 2023 Aug 29;113552.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

- 
- [1]. Kamburova EG, et al. In vitro effects of rituximab on the proliferation, activation and differentiation of human B cells. Am J Transplant. 2012 Feb;12(2):341-50.
- [2]. Manches O, et al. In vitro mechanisms of action of rituximab on primary non-Hodgkin lymphomas. Blood. 2003 Feb 1;101(3):949-54.
- [3]. Byrd JC, et al. The mechanism of tumor cell clearance by rituximab in vivo in patients with B-cell chronic lymphocytic leukemia: evidence of caspase activation and apoptosis induction. Blood. 2002 Feb 1;99(3):1038-43.
- 

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA