



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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) 

## Anti-gp120 [Y498] Bulk Size Ab03687-23.0-BT

**Isotype and Format:** Rabbit IgG, Kappa

**Clone Number:** Y498

**Alternative Name(s) of Target:** Glycoprotein 120; SU; surface protein gp120; env polyprotein; envelope glycoprotein gp160

**UniProt Accession Number of Target Protein:** P04578

**Published Application(s):** neutralization, SPR, ELISA

**Published Species Reactivity:** HIV-1

**Immunogen:** A phage display Fab library was constructed using the PBMC samples of a CRF07\_BC-infected subject. The antibody was selected by panning the library with a CRF07\_BC (CN54)-derived rgp120 antigen.

**Specificity:** The antibody is specific for gp120. The conformational epitope of contains three antigenic sites on gp120, including the CD4 binding loop in C3, the  $\beta$ 23 in C4 and the  $\beta$ 24- $\alpha$ 5 in C5.

**Application Notes:** The Fab fragment neutralized the R5 isolate SF162 and the X4 isolate HXB2 at a dose-dependent manner. The specificity of the Fab and IgG1 format of the antibody was confirmed by ELISA analysis. The binding affinity of the IgG1 antibody was measured by SPR assay, the antibody bound to CN54 rgp120 with a Kd value of 0.46 nM and bound to JRFL rgp120 with a Kd value at 0.86 nM. The antibody cross-reacted with diverse Env antigens and neutralized 30% of 70 tested HIV-1 isolates. The antibody could efficiently inhibit the binding of biotinylated sCD4 to rgp120 at a dose-dependent manner in competition ELISA (Sun et al., 2017; PMID :28968970).

**Antibody First Published in:** Sun et al. Identification of a novel HIV-1-neutralizing antibody from a CRF07\_BC-infected Chinese donor Oncotarget. 2017 Jun 21;8(38):63047-63063. [PMID:28968970](#)

**Note on publication:** The original paper describes the generation and characterization of the antibody.

### 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.