



# 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-Ricin [F8(JOB10)] Standard Size Ab03297-1.159

**Isotype and Format:** Mouse IgG1-Fc fusion

**Clone Number:** F8(JOB10)

**Alternative Name(s) of Target:** rRNA N-glycosidase; Ricin A chain (EC:3.2.2.22); Ricin B chain

**UniProt Accession Number of Target Protein:** P02879

**Published Application(s):** crystallography, neutralizing, ELISA

**Published Species Reactivity:** Ricinus communis

**Immunogen:** The original antibody was generated by immunizing alpacas, followed by library construction and panning on RTA.

**Specificity:** The antibody is specific for RTA. The antibody's principal contacts with RTA were centered on  $\beta$ -strand h, with lesser interactions occurring with  $\alpha$ -helix B and  $\alpha$ -helix D. Ricin is a member of the type II ribosome-inactivating protein (RIP) family of plant toxins. It is a 65 kDa glycoprotein consisting of two subunits, RTA and RTB, joined by a single disulfide bond.

**Application Notes:** The crystal structure of the VHH antibody in complex with the ricin toxin's enzymatic subunit (RTA) was solved. The specificity of the original format of the antibody was confirmed by ELISA analysis, and the antibody's EC50 for ricin holotoxin was 0.5-0.8 nM. The binding affinity of the VHH fragments to ricin was measured by surface plasmon resonance ( $K_d = 0.2$  nM). In the Vero cell cytotoxicity assay, the VHH had an IC50 of  $\sim 300$  nM, thereby classifying it as a weak neutralizing antibody (Rudolph et al., 2016; PMID: 27159829).

**Antibody First Published in:** Rudolph et al. Structural analysis of nested neutralizing and non-neutralizing B cell epitopes on ricin toxin's enzymatic subunit. *Proteins*. 2016 Aug;84(8):1162-72.

[PMID:27159829](#)

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

### Product Form

**Size:** 100 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. 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.