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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Ricin [F8(JOB10)] Standard Size Ab03297-23.159

Isotype and Format: Rabbit IgG-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 β -strand h, with lesser interactions occurring with α -helix B and α -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 ~ 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: 200 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.