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Product # 766L

CERTIFICATE OF ANALYSIS
ANTI-SHIGA TOXIN, CAMELID ANTIBODY, VHH
Lot #7661A1

Contents

Each vial contains 0.1 mg of Anti-Shiga Toxin Camelid Antibody in 200 µl of PBS, pH 7.4 with 0.05% azide. The antibody is a recombinantly expressed VHH heterotetramer that contains two VHH domains that recognize Stx1 and two that recognize Stx2. The molecule contains an N-terminal thioredoxin and hexahistidine tag. There is also an E-tag between the thioredoxin and the VHH domains. The antibody was purified using IMAC. **Handle product gently. Do not vortex.**

Concentration

0.5 mg/ml

Purity

The major band of the camelid antibody (Product #766L) is approximately 80kDa and is 50% of the total protein. There are smaller molecular weight bands accompanying this major band that also react with Shiga toxin. Groups of bands appear at molecular weights around 40kD and 55kD. These are consistent with molecules containing one or two VHH domains. A modified Western Blot indicated that the main 80kDa band recognizes both Shiga Toxin 1 (Product #161) and Shiga Toxin 2 (Product #162) as expected. The lower molecular weight bands recognize Shiga Toxin 1.

Applications

Sandwich ELISA – This camelid antibody (Product #766L) can be paired with the anti-shiga toxin 2, IgG (Product #765) in a standard sandwich ELISA. A 1 µg coating of the Product #765 antibody is used as the capture antibody followed by exposure to the antigen, Product #162. The antigen is sandwiched using a 1:6000 dilution of the secondary antibody, the camelid antibody (Product #766L). The antigen is detected with peroxidase conjugated anti-E tag antibody and a fluorogenic substrate. As low as 2 ng/ml of antigen is readily detected in the assay.

Each laboratory should determine an optimum working titer for use in its particular application.

Packaging and Storage

This product is supplied as a liquid. Store this product at 2-8°C.

Handling

Good laboratory technique should be employed in the safe handling of this product. Wear appropriate laboratory attire including a lab coat, gloves and safety glasses.

This product is intended for research purposes by qualified personnel only. It is not intended for use in humans or as a diagnostic agent. List Biological Laboratories, Inc. is not liable for any damages resulting from the misuse or handling of this product.

FOR RESEARCH PURPOSES ONLY. NOT FOR HUMAN USE.

QA/QC: KPD Date: 01/29/2021

Made in U.S.A. 