

KPL BacTrace® Antibody

Goat anti-*E. coli* O103

Biotin-Labeled

Catalog No.
5360-0035 (16-95-93)

Size
0.5 mg

DESCRIPTION

Affinity purified antibody isolated from a pool of serum from goats immunized with *Escherichia coli* O103 was labeled with a biotin analog with a long carbon spacer arm, which minimizes steric hindrance and maximizes binding.

FORM/STORAGE

Lyophilized. Store at 2-8°C until rehydrated. Stable for a minimum of 1 year when stored at 2-8°C.

STABILIZER AND PRESERVATIVE

Goat serum is added as a protein stabilizer. No preservative added. Additional biological protection may be provided with 0.1% sodium azide. Non-sterile.

ANTIBODY CONCENTRATION

The concentration of affinity purified antibody is 0.5 mg as determined by UV absorbance at 280 nm.

SPECIFICITY/CROSS REACTIVITY

Tested by ELISA techniques as applicable. This product reacts specifically with *E. coli* O103. This antibody is known to cross-react strongly with *Citrobacter freundii* due to a pervasive and shared surface antigen. As a confirmatory test, *E. coli* O103 and *Citrobacter freundii* can be easily distinguished from one another by culturing on chromagenic nutrient agar such as BD™ CHROMagar™ Orientation Medium.

REHYDRATION AND STORAGE

Note: Rehydration of antibodies in TBS or buffers other than those listed here is not recommended.

Rehydration: Rehydrate with 1 mL of reagent quality water. Rotate the vial until the lyophilized pellet is totally dissolved.

Storage: This product may be stored for up to 1 week refrigerated; thereafter, it should be stored frozen. Stable for a minimum of 1 year at -20°C.

SUGGESTED WORKING DILUTIONS

Optimal working concentrations should be determined experimentally. Prepare working dilution in solutions free

from biotin such as 0.1 M TBS with 0.01% Tween 20 or 1% KPL BSA Diluent Block immediately before use. These buffers are not recommended for long term storage.

Suggested starting dilutions are as follows. In many cases, the antibody may be further diluted.

ELISA:

1:1000 - 1:5000 0.5 µg/mL - 0.1 µg/mL

Blotting:

1:1000 - 1:5000 0.5 µg/mL - 0.1 µg/mL

Histo/Cytochemical Procedures:

1:50 - 1:500 10.0 µg/mL - 1.0 µg/mL

PRODUCT SAFETY AND HANDLING

This product is considered non-hazardous as defined by The Hazard Communication Standard (29 CFR 1910.1200). Avoid contact with skin and eyes. In case of contact or spillage, clean with copious amounts of water. Disposal via sanitary sewer.

RELATED PRODUCTS

RELATED PRODUCTS	CAT. NO.
KPL <i>E. coli</i> O103:H8 Positive Control	5370-0016 (50-95-93)
KPL <i>E. coli</i> O111 Unlabeled Antibody	5310-0328 (01-95-91)
KPL <i>E. coli</i> O26 Unlabeled Antibody	5310-0329 (01-95-92)
KPL <i>E. coli</i> O103 Unlabeled Antibody	5310-0330 (01-95-93)
KPL <i>E. coli</i> O145 Unlabeled Antibody	53100331 (01-95-94)
KPL <i>E. coli</i> O121 Unlabeled Antibody	5310-0332 (01-95-95)
KPL <i>E. coli</i> O45 Unlabeled Antibody	5310-0333 (01-95-96)
KPL <i>E. coli</i> O157:H7 Unlabeled Antibody	5310-0326 (01-95-90)
KPL 10% BSA Diluent/Blocking Solution	5140-0006 (50-61-00)
KPL 10X Coating Solution	5150-0014 (50-84-00)
KPL 20X Wash Solution	5150-0008 (50-63-00)
KPL AP Streptavidin	5270-0030 (15-30-00)



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<u>Catalog No.</u>	<u>Size</u>
5360-0035 (16-95-93)	0.5 mg
KPL HRP Streptavidin	5270-0029 (14-30-00)

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.