

ReserveAP™ Phosphatase-Labeled Antibody To *Borrelia burgdorferi*

Produced in Goat

Catalog No. Size
051-97-91 **0.1 mg**



DESCRIPTION

Affinity purified antibody isolated from a pool of serum from goats immunized with whole cells of *Borrelia burgdorferi* was labeled with phosphatase using a modified glutaraldehyde procedure (1).

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 and/or bovine serum albumin (BSA) are added as a protein stabilizer. No preservatives are added. Additional biological protection may be provided with 0.1% sodium azide. Non-sterile.

ANTIBODY CONCENTRATION

The concentration of affinity purified antibody is 0.1 mg as determined by UV absorbance at 280 nm.

E/P RATIO

Molar enzyme/antibody protein ratio is from 1.9:1 to 2.9:1.

SPECIFICITY/CROSS REACTIVITY

Tested by gel diffusion and ELISA techniques as applicable. This product reacts specifically with *Borrelia burgdorferi*. Cross-reactivity to other *Borrelia* species has been minimized through extensive affinity adsorption. Antibody has not been tested for cross-reactivity to treponemes.

REHYDRATION AND STORAGE

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

Procedure A: 50% Glycerol

At a working dilution, the level of glycerol is too small to affect most assays. The use of glycerol is not recommended when the conjugate is used in live cell work.

Rehydration: Add 0.5 mL reagent quality water to the product vial. Rotate the vial until the lyophilized pellet is totally dissolved. Add 0.5 mL glycerol to the product vial. Pipette up and down several times to ensure proper mixing.

Use: Prior to use, dilute to desired concentration with TBS or other buffer. The diluted conjugate should be used immediately.

Storage: This product may be stored either refrigerated or frozen as desired. Stable for a minimum of 1 year.

This is the most effective way to rehydrate conjugates for long-term storage.

Procedure B: H₂O

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

Use: Prior to use, dilute to desired concentration with TBS or other buffer. The diluted conjugate should be used immediately.

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.

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SUGGESTED WORKING DILUTIONS

Optimal working concentrations should be determined experimentally. Prepare working dilution in TBS or other buffer such as AP Conjugate Stabilizer, BSA or Milk Diluent/Blocking Solution (See RELATED PRODUCTS). These buffers are not recommended for long-term storage, with the exception of AP Conjugate Stabilizer (See RELATED PRODUCTS). Suggested starting dilutions are as follows. In many cases, the antibody may be diluted further than indicated:

Microwell:

1:200 - 1:1000 5.0 µg/mL - 1.0 µg/mL

Blotting:

1:1000 - 1:4000 1.0 µg/mL - 0.25 µg/mL

Histo/Cytochemical Procedures:

1:40-1:100 25 µg/mL - 10 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.

REFERENCES

1. Voller, A., et. al. (1976). A Manual of Clinical Immunology, American Society for Microbiology, 509-510.

RELATED PRODUCTS

AP Conjugate Stabilizer (200 mL)	Cat. No. 55-15-00
BSA Diluent/Blocking Solution	Cat. No. 50-61-00
Milk Diluent/Blocking Solution	Cat. No. 50-82-01
Coating Solution	Cat. No. 50-84-00
Wash Solution	Cat. No. 50-63-00

Suggested KPL Phosphatase Substrates

Microwell:

BluePhos® Cat. No. 50-88-00

pNPP Cat. No. 50-80-00

RedPhos™ Microwell Cat. No. 50-87-20

Immunoblotting:

BCIP/NBT Cat. No. 50-81-07

RedPhos™ Membrane Cat. No. 50-81-30

PhosphaGLO™ Cat. No. 55-60-04

PhosphaGLO Reserve™ Cat. No. 55-60-02

Immunohistochemistry:

HistoMark® RED Cat. No. 55-69-00

HistoMark® BLUE Cat. No. 55-70-00

See the KPL catalog for a wide selection of antibodies, substrates, protein and nucleic acid detection kits, and immunohistochemistry reagents.

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