

**Phosphatase-Labeled
Affinity Purified Antibody
To Human IgM (μ), F(ab')₂**

Produced in Goat

Catalog No. **Size**
215-1003 **0.5 mg**



DESCRIPTION

F(ab')₂ fragment, purified by size exclusion from a pepsin digest of affinity purified antibody isolated from a pool of serum from goats immunized with purified human IgM 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 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.

E/P RATIO

Molar enzyme/antibody protein ratio = 1.7:1

SPECIFICITY/CROSS REACTIVITY

Tested by gel diffusion and ELISA techniques as applicable. This product reacts specifically with human IgM. This antibody will not bind to the Fc receptors present on certain cell surfaces. Antibodies to human IgM may cross-react with immunoglobulins of other mammalian species if common binding sites are shared. Product has been adsorbed with purified human IgA and IgG. Reactivity has not been characterized to other human immunoglobulins.

REHYDRATION AND STORAGE

Note: Rehydration of antibodies in TBS or 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.

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

Procedure B: KPL's AP Stabilizer

Rehydration: Rehydrate with 1 mL of KPL's AP stabilizer. Rotate the vial until the lyophilized pellet is totally dissolved.

Storage: This product should be stored at 2-8°C. Stable for a minimum of 1 year.

Procedure C: H₂O

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 TBS or other buffer such as BSA or Milk Diluent/Blocking Solution (See RELATED PRODUCTS) immediately before use. These buffers not recommended for long term storage. Suggested starting dilutions are as follows.

In many cases, the antibody may be diluted further than indicated.

ELISA:

1:500 - 1:2500 1.0 μ g/mL - 0.2 μ g/mL

Blotting:

1:2500 - 1:10000 0.2 μ g/mL - 0.05 μ g/mL

Histo/Cytochemical Procedures:

1:10 - 1:250 5.0 μ g/mL - 2.0 μ g/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.

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REFERENCES

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

RELATED PRODUCTS

AP 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 Concentrate	Cat. No. 50-84-00
Wash Solution Concentrate	Cat. No. 50-63-00
BluePhos	Cat. No. 50-88-00
pNPP	Cat. No. 50-80-00
BCIP/NBT	Cat. No. 50-81-18

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