

Phosphatase-Labeled Affinity Purified Antibody To Human IgG (Fc) *Produced in Goat*



Catalog No. Size
05-10-20 0.1 mg

DESCRIPTION

Affinity purified antibody isolated from a pool of serum from goats immunized with purified Fc fragment of Human IgG 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 0.1 mg as determined by UV absorbance at 280 nm.

E/P RATIO

Molar enzyme/antibody protein ratio = 1.6:1

SPECIFICITY/CROSS REACTIVITY

Tested by gel diffusion and ELISA techniques as applicable. This product reacts specifically with FC fragment of human IgG. Reactivity to IgG subclasses has not been tested. Antibodies to Fc fragment of human IgG may cross-react with immunoglobulins of other mammalian species if common binding sites are shared.

REHYDRATION AND STORAGE

KPL recommends rehydration with our AP Conjugate Stabilizer (See RELATED PRODUCTS). This product effectively stabilizes AP labeled antibodies for extended periods of time at 4°C with minimal effect on activity.

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

PROCEDURE A: KPL'S AP CONJUGATE STABILIZER

Rehydration: Rehydrate with 1 mL of KPL's AP Conjugate 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 B: 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 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 AP Conjugate Stabilizer, TBS or other buffer such as BSA or Milk Diluent/Blocking Solution (See RELATED PRODUCTS). 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:

1/100 – 1/500 1.0 µg/mL - 0.2 µg/mL

Blotting:

1/500 – 1/2000 0.2 µg/mL - 0.05 µg/mL

Histo/Cytochemical Procedures:

1/20 – 1/50 5.0 µg/mL - 2.0 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.

REFERENCES

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

RELATED PRODUCTS

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

Suggested KPL Phosphatase Substrates**ELISA:**

BluePhos	Catalog No. 50-88-00
pNPP	Catalog No. 50-80-00

Immunoblotting:

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

Immunohistochemistry:

HistoMark [®] RED	Catalog No. 55-69-00
HistoMark [®] BLUE	Catalog No. 55-70-00

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

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Nothing disclosed herein is to be construed as a recommendation to use this product in violation of any patents. The information presented above is believed to be accurate. However, said information and product are offered without warranty or guarantee since the ultimate conditions of use and the variability of the materials treated are beyond our control. We cannot be responsible for patent infringements or other violations that may occur with the use of this product. No claims beyond replacement of unacceptable material or refund of purchase price shall be allowed.