Anti-Human IgG (γ)
KPL *ReserveAP™* -Labeled Antibody
Produced in Goat

Catalog No.	Size
5220-0348 (0751-1002)	1.0 mg

DESCRIPTION
Affinity purified antibody isolated from a pool of serum from goats immunized with purified human IgG was labeled with phosphatase using a modified glutaraldehyde procedure (1).

FORM/STORAGE
Lyophilized. Store at 2-8 ℃ until rehydrated. Stable for a minimum of 1 year when stored at 2-8 ℃.

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 1.0 mg as determined by UV absorbance at 280 nm.

E/P RATIO
Molar enzyme/antibody protein ratio is from 2.2:1 to 2.9:1.

SPECIFICITY/CROSS REACTIVITY
Tested by gel diffusion and ELISA techniques as applicable. This product reacts specifically with human IgG. Reactivity to IgG subclasses has not been tested. Antibodies to human IgG may cross-react with immunoglobulins of other mammalian species if common binding sites are shared. Product has been adsorbed with purified human IgA and IgM. 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 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 ℃. Stable for a minimum of 1 year.

Procedure C: H_2O
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 ℃.

SUGGESTED WORKING DILUTIONS
Optimal working concentrations should be determined experimentally. Prepare working dilution in TBS or other buffer such as KPL BSA or KPL 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: 1:1000 - 1:5000
Blotting: 1:5000- 1:20000
Histo/Cytochemical Procedures: 1:200 - 1:500

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	**CAT. NO.**
KPL BluePhos® Microwell Substrate	5120-0059 (50-88-00)
KPL *p*NPP Microwell Substrate	5120-0056 (50-80-00)
KPL BCIP/NBT Substrate	5420-0038 (50-81-18)
KPL PhosphaGLO Substrate	5430-0054 (55-60-03)
KPL PhosphaGLO Reserve Substrate	5430-0052 (55-60-01)