

**Peroxidase-Labeled  
Affinity Purified Antibody  
To Human IgG( $\gamma$ )**

*Produced in Goat*

**Catalog No.**    **Size**  
**474-1002**      **1.0 mg/mL**



**DESCRIPTION**

Affinity purified antibody isolated from a pool of serum from goats immunized with purified human IgG was labeled with peroxidase using the periodate method of Nakane and Kawaoi (1).

**FORM/STORAGE**

Liquid. Store refrigerated at 2 - 8°C. Stable for a minimum of 1 year when stored at 2 - 8°C.

**STABILIZER AND PRESERVATIVE**

Bovine serum albumin (BSA) is added as a protein stabilizer. A proprietary anti-bacterial agent is added to preserve the product. DO NOT USE SODIUM AZIDE. Non-sterile.

**ANTIBODY CONCENTRATION**

The concentration of affinity purified antibody is 1 mg as determined by UV absorbance at 280 nm.

**E/P RATIO**

Molar enzyme/antibody protein ratio 4.0:1.

**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.

**SUGGESTED WORKING DILUTIONS**

Optimal working concentration 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 are not recommended for long term storage. Suggested starting dilutions are as follows.

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

**ELISA:**

1/1000 – 1/5000                      1.0  $\mu$ g/mL - 0.2  $\mu$ g/mL

**Blotting:**

1/5000- 1/20000                      0.2  $\mu$ g/mL - 0.05  $\mu$ g/mL

**Histo/Cytochemical Procedures:**

1/200 – 1/500                          5.0  $\mu$ g/mL - 2.0  $\mu$ 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.

**REFERENCES**

1. Nakane, P.K., and Kawaoi, A., (1974). *J Histochem. Cytochem.*22: 1084.

**RELATED PRODUCTS**

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
SureBlue 1-Component TMB	Cat. No. 52-00-02
ABTS Microwell Substrate	Cat. No. 50-66-00
TMB Membrane Substrate	Cat. No. 50-77-18
4 CN Substrate System	Cat. No. 50-73-00

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