

**KPL Peroxidase-Labeled
Affinity Purified Antibody
To Rat IgG (H+L)
(Mouse Serum Adsorbed)
Produced in Goat**

Catalog No. **Size**
5220-0459 (474-1612) **1.0 mg/mL**

DESCRIPTION

Affinity purified antibody isolated from a pool of serum from goats immunized with purified rat 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 rat IgG and may recognize other immunoglobulin types that have light chains in common with IgG. Reactivity to IgG subclasses has not been tested. Antibodies to rat IgG may cross-react with immunoglobulins of other mammalian species if common binding sites are shared. Cross-reactivity with mouse serum has been minimized with affinity procedures.

SUGGESTED WORKING DILUTIONS

Optimal working concentration should be determined experimentally. Prepare working dilution in TBS or other buffer such as BSA or KPL 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 µg/mL - 0.2 µg/mL

Blotting:

1/5000- 1/20000 0.2 µg/mL - 0.05 µg/mL

Histo/Cytochemical Procedures:

1/200-1/500 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. Nakane, P.K., and Kawaoi, A., (1974). *J Histochem. Cytochem.*22: 1084.

RELATED PRODUCTS

	CAT. NO.
KPL 10% BSA Diluent/Blocking Solution	5140-0006 (50-61-00)
KPL Coating Solution	5150-0014 (50-84-00)
KPL 20X Wash Solution	5150-0008 (50-63-00)
KPL SureBlue 1-Component TMB Microwell Substrate	5120-0076 (52-00-02)
KPL BluePhos Microwell Substrate	5120-0059 (50-88-00)