KPL *Peroxidase*-Labeled Antibody to Deer IgG (H+L)

Produced in Rabbit

Catalog No.	Size
5220-0298 (04-31-06)	0.1 mg

DESCRIPTION
Affinity purified antibody isolated from a pool of serum from rabbits immunized with purified deer IgG was labeled with peroxidase by the periodate method of Nakane and Kawaoi [(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
Rabbit serum added as a protein stabilizer. No preservative added. Additional biological protection may be provided with 0.01% thimerosal. DO NOT USE 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 = 4:1

SPECIFICITY/CROSS REACTIVITY
Tested by gel diffusion and ELISA techniques as applicable. This product reacts specifically with deer 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 deer IgG may cross-react with immunoglobulins of other mammalian species if common binding sites are shared.

REHYDRATION/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 HRP Stabilizer
Rehydration: Rehydrate with 1 mL of KPL HRP 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: 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°C.

SUGGESTED WORKING DILUTIONS
Optimal working concentrations should be determined experimentally. Prepare working dilution in TBS or other buffer such as BSA or KPL Milk Diluent/Blocking Solution 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:	
1:100 - 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. Nakane, P K., and Kawaoi, A. (1974). *J. Histochem. Cytochem*. 22:1084.

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RELATED PRODUCTS	CAT. NO.
KPL HRP Stabilizer	5290-0005 (54-15-01)
KPL 5X Detector™ Block	5920-0004 (71-83-00)
KPL Milk Diluent/Blocking Solution	5140-0011 (50-82-01)
KPL Coating Solution	5150-0014 (50-84-00)
KPL Wash Solution	5150-0008 (50-63-00)
KPL SureBlue™ Microwell Substrate	5120-0075 (52-00-01)
KPL ABTS Microwell Substrate	5120-0041 (50-66-00)
KPL TMB Membrane Substrate	5420-0027 (50-77-03)
KPL HistoMark® TrueBlue	5510-0035 (54-78-00)
KPL BSA Diluent/Blocking Solution	5140-0006 (50-61-00)

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.