

Research Use Only. Not for use in diagnostic procedures.

Peroxidase-Labeled Affinity Purified Antibody To Rabbit IgG (H+L) Produced in Goat

Product Number: NEF812E001EA

SIZE: 0.1 mg

PRODUCT DESCRIPTION:

Affinity purified antibody isolated from a pool of serum from goats immunized with purified rabbit 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:

Goat 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 rabbit 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 rabbit IgG may cross-react with immunoglobulins of other mammalian species if common binding sites are shared.

REHYDRATION STORAGE:

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. Dilute to desired concentration with TBS or other buffer.

Storage: This product may be stored either refrigerated or frozen as desired. Stable for a minimum of 1 year.

Procedure B: H₂O

Rehydration: Rehydrate with 1 mL of reagent quality water. Rotate the vial until the lyophilized pellet is totally dissolved. Dilute to desired concentration with TBS or other buffer.

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 Milk Diluent/Blocking Solution. These buffers not recommended for long term storage. Suggested starting dilutions are as follows.

ELISA: $\mu\text{g/mL}$ - 0.2

1:100 - 1:500 $1.0\mu\text{g/mL}$

Blotting: $\mu\text{g/mL}$ - 0.05

1:500 - 1:2000 $0.2\mu\text{g/mL}$

Histo/Cytochemical Procedures:

$\mu\text{g/mL}$ - 2.0

1:20 - 1:50 $5.0\mu\text{g/mL}$

Enhanced sensitivity substrates like TSA and Western Lightning *Ultra* will require further dilution of the antibody than indicated.

RELATED PRODUCTS:

Anti-rabbit IgG (goat) HRP (1ml solution, 1 mg/ml) NEF812001EA

Anti-mouse IgG (goat) HRP (1ml solution, 1 mg/ml) NEF822001EA

Anti-human IgG (goat) HRP (1ml solution, 1 mg/ml) NEF802001EA

Please visit www.perkinelmer.com/tsa or www.perkinelmer.com/western for information on high sensitivity substrates for western blotting, immunohistochemistry, *in situ* hybridization and ELISA.

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:

Nakane, P K., and Kawaoi, A. (1974). *J. Histochem.*

Cytochem. 22:1084.

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