

**Peroxidase-Labeled
Affinity Purified Antibody
To Mouse IgG (H+L)
(Xtra Serum Adsorbed)**

Produced in Goat

Catalog No. Size
074-18-061 1.0 mg



DESCRIPTION

Affinity purified antibody isolated from a pool of serum from goats immunized with purified mouse IgG was labeled with horseradish peroxidase using a modified periodate method adapted from Farr and Nakane (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

Bovine serum albumin (BSA) added as a protein stabilizer. A proprietary antibacterial agent is added as a preservative. 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 = 4:1

SPECIFICITY/CROSS REACTIVITY

Tested by gel diffusion and ELISA techniques as applicable. This product reacts specifically with mouse 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 mouse IgG may cross-react with immunoglobulins of other species if common binding sites are shared. Cross-reactivity with bovine, chicken, goat, guinea pig, hamster, horse, human, rabbit, rat, and sheep serum has been minimized with affinity procedures.

REHYDRATION STORAGE

KPL recommends rehydration with our HRP Conjugate Stabilizer (See RELATED PRODUCTS). This product effectively stabilizes HRP labeled antibodies for extended periods of time at 2 - 8°C with minimal effect on activity.

Note: Rehydration of antibodies in TBS or buffers other than those listed here is not recommended.

Procedure A: KPL's HRP Conjugate Stabilizer

Rehydration: Rehydrate with 1 mL of KPL's HRP Conjugate Stabilizer. Rotate the vial until the lyophilized pellet is totally dissolved. Dilute to desired concentration with additional HRP Conjugate Stabilizer.

Storage: This product should be stored at 2 - 8°C. Stable for a minimum of 1 year.

Procedure B: 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 C: 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 (See RELATED PRODUCTS). 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 1.0 µg/mL - 0.2 µg/mL

Blotting:

1:1000 – 1:5000 1.0 µg/mL - 0.2 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

Farr and Nakane. (1981). J. Immunol. Methods, 47:129-144.

RELATED PRODUCTS

HRP Stabilizer	Catalog No. 54-15-01
BSA Diluent/Blocking Solution	Catalog No. 50-61-00
Milk Diluent/Blocking Solution	Catalog No. 50-82-01
Coating Solution Concentrate	Catalog No. 50-84-00
Wash Solution Concentrate	Catalog No. 50-63-00

Suggested KPL Peroxidase Substrates

ELISA:

SureBlue TMB Microwell Substrate Catalog No. 52-00-02
ABTS Microwell Substrate Catalog No. 50-66-00

Western Blotting:

TMB Membrane Substrate Catalog No. 50-77-03
4 CN Substrate System Catalog No. 50-73-00

Immunohistochemistry:

HistoMark[®] TrueBlue Catalog No. 54-78-00
HistoMark[®] ORANGE Catalog No. 54-74-00
HistoMark[®] BLACK Catalog No. 54-75-00

See the KPL catalog for a wide selection of antibodies, substrates, protein and nucleic acid detection kits, and immunohistochemistry reagents.

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