PRODUCT INFORMATION Affinity Purified Antibodies and Their Conjugates

EY Laboratories' AF series antibodies are prepared from antisera by using affinity chromatography. The finished products may contain a low percentage of denatured protein due to unfavorable conditions during elution of the antibodies from the affinity column. Some cross reactivity studies have been done, contact Technical Service to request specific information.

Affinity purified antibodies and their conjugates are specifically prepared for laboratories who are involved with basic or diagnostic research. Purified antibodies give the highest possible ratio of the conjugate/antibody. This is an important factor for quantitative analysis of antigens. EY Laboratories' conjugated antibodies are designed for use in immunodiffusion, immunoelectrophoresis, fluorescent microscopy, light and electron microscopy.

The technology used in preparing the antigen specific and affinity purified antibody minimizes interference from other complex forming components in the antisera. Bovine serum albumin is used to coat vials containing affinity purified antibodies or their conjugates. This is to prevent loss of the antibody through adherence to the glass surface.

Catalog Number:	BAF-451-1
Description:	Biotin Conjugated Goat Affinity Purified Antibody to Rabbit IgG, Fc
Lot Number:	Specific, 1mL
Expiration Date:	1 year from date of manufacture
Protein Concentration: (Based on OD280)	
Chemical Used for Conjugation: (where applicable)	Biotin
Buffer:	0.01M Phosphate - 0.15M NaCl, pH 7.2-7.4. 0.05% sodium azide is added as a preservative EXCEPT for peroxidase conjugates and alkaline
Storage:	phosphatase conjugates. Store liquid frozen in aliquots EXCEPT for Ferritin and Alkaline Phosphatase conjugates which must be refrigerated, not frozen. Alkaline Phosphatase conjugates contain up to 50% glycerol.
Stability:	The liquid material is stable for several years when stored in aliquots with 0.05% sodium azide added as a preservative.
	NOTE: DO NOT add sodium azide to peroxidase conjugates. Usee: Dilute 1% BSA in PBS at least 100 x before use.
Caution:	Reference to the enclosed MSDS for information regarding affinity purified antibudies and their conjugates. The aluminum seals have sharp edges and the vial itself may have cracks which can cause lacerations. Use caution when opening the vial.
	For Research and Laboratory Use Only.
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EY LABOR	ATORIES, INC. Tel: 650-342-3296

General Procedure

The following is a general Procedure and Trouble-Shooting Guide. The information is provided only for your convenience. The success of your experiments are not guaranteed by EY Laboratories, Inc.

- 1 Wash and block tissue section or blot, EY Laboratories, Inc. recommends that 1% purified Bovine Serum Albumin (BSA) or defatted milk powder be used for blocking to prevent nonspecific binding. Do not use serum products, they contain glycoproteins which may lead to high levels of non specific background. After blocking, rinse briefly with recommended Buffer.
- Dilute Biotin Labeled Antibody to a concentration of 5-50 µg/ml using recommended Buffer. 2. Incubate section or blot for 30-90 minutes at room temperature in a moist chamber. Slightly longer incubation times may be required if incubation is done at 2-8°C. Rinse 3 times, 5 minutes each time with recommended Buffer.
- 3. Dilute and incubate Avidin Conjugate according to manufacturer directions.

Notes: Inhibition of antibody binding may be accomplished by using one of two procedures:

- A. Before proceeding to Step #3 incubate antibody treated section or blot with inhibitory carbohydrate for 30-60 minutes at room temperature. NOTE: Complete inhibition may not occur.
- B. Preincubate diluted Biotin Labeled Antibody with inhibitory carbohydrate for 30-60 minutes at room temperature before applying to section or blot.

Problem Solution Cause 1.Low concentration of Causes #1 - #3 antibody conjugate. Increase incubation time. 2. Low concentration of avidin b. Increase concentration of sample (on Weak or no conjugate. blot) antibody conjugate and/or avidin Staining 3. Insufficient incubation time. conjugate. 4. Inappropriate treatment a. Treat section or blot with a different of sample prior to labeling. blocking reagent. 1. Antibody conjugate and/or a. Decrease concentration of respective avidin conjugate is too reagents. concentrated. b. Shorten incubation times. 2. Insufficient washing. a. Perform multiple washings and prolong washing time. High a. Treat section or blot with a different Background 3. Insufficient blocking. blocking reagent. 4. Sample contains endogenous a. Determine if sample contains activity enzymatic activity. which would give background staining in the absence of the avidin conjugate. a. Perform control reactions. Unexpected b. Use other cytochemical technique to Multiple causes Staining prove or disprove the findings. Pattern





107 North Amphlett Blvd. San Mateo, CA 94401

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MATERIAL SAFETY DATA SHEET

Effective Date: March 31, 2006 Revision 4 Page 1 of 2

PRODUCT IDENTIFICATION

Purified proteins or biotin labeled with Horseradish Peroxidase or Alkaline Name: Phosphatase.

- Catalog HP-02, BA-104, BA-105, BA-108, BA-109, H-1102 to H-9000, LA-1104 to LA-9000, Number (s): PA-2100 to PA-2701, AA-2100 to AA-2701, HAF-001 to HAF-2354, AAF-001 to AAF-2354, HA-01 to HA-013, AA-01 to AA-013, HAL-1104 to HAL-4701, AAL-1104 to AAL-4701.
- Protein A, Avidin (egg white), Biotin, Lectins, Secondary Antibodies labeled with Synonyms: Horseradish Peroxidase or Alkaline Phosphatase.

EMERGENCY INFORMATION

EY Laboratories, Inc. 107 North Amphlett Blvd. San Mateo, CA 94401

EMERGENCY PHONE: 650 342 3296

HAZARDOUS COMPONENTS

Specific protein(s) as listed on the vial label. Solutions are at a concentration generally greater than 0.5mg protein/ ml. Biological activity of these labeled proteins will vary. Horseradish Peroxidase and Alkaline Phosphatase are both potent enzymes which may be harmful if ingested, inhaled, or allowed to absorb through the skin. Both enzymes are known to cause allergic responses in sensitive individuals.

HEALTH HAZARD INFORMATION

None established. The toxicological properties of these products have not
been thoroughly investigated. Care should be taken when handling any of
these materials.
May causes localized eye, skin, or mucous membrane irritation. Some
sensitive individuals may develop a chronic allergic reaction with exposure.
Inhalation of powders and skin contact with liquids are the primary routes
of exposure. Care should be taken to avoid the formation of aerosols when
handling any of the solutions.

PHYSICAL CHARACTERISTICS

APPEARANCE:

NOTE:

Powders are a light brown. Solutions will be light to dark brown.

SOLUBILITY: Powders are completely soluble in many biological buffers and water. All liquids are completely miscible in water and biological buffers.

FIRE AND EXPLOSION HAZARDS Not considered to be a fire hazard. **EXTINGUISHING MEDIA:** SPECIAL FIRE FIGHTING PRECAUTIONS:

Water spray or CO2. None required.

Alkaline Phosphatase conjugates contain less than 0.05% sodium azide as a preservative. Azide may react with lead and copper plumbing to form explosive metal azides. Flush with copious amounts of water when disposing material in the sink.

REACTIVITY DATA

known. They are not believed to be hazardous. HAZARDOUS POLYMERIZATION: Will NOT occur.
HAZARDOUS POLYMERIZATION: Will NOT occur.
INCOMPATIBILITY: None known. (Lead and copper may react with sodium azide).

SPILL / LEAK PROCEDURES

MATERIAL RELEASE / SPILL:	Avoid contact with powder or liquid. Clean up spill with a paper towel soaked in household bleach. Do not allow solutions to dry on environmental surfaces. Wash affected area with detergent after the area has been treated with bleach.	
WASTE DISPOSAL:	Incinerate, autoclave, or dispose of paper waste in accordance with all Local, State, and Federal regulations. Due to the small quantities of material involved these products are generally not considered to be environmental hazards. All of these proteins are fully biodegradable.	

EMERGENCY FIRST AID PROCEDURES

May be harmful if swallowed, inhaled, or allowed to absorb through the skin. Wash contacted area with water for 15 minutes. If inhaled remove to fresh air. Report exposure to the appropriate safety official. Consult a physician if irritation occurs or if there is any indication of an allergic response, such as watering eves, sneezing, or difficulty breathing. Any eve contact should be reported to a physician immediately

SPECIAL HANDLING PRECAUTIONS

VENTILATION:	No special ventilation is required but it is recommended to handle these reagents in a fume
EYE PROTECTION:	hood when possible. Required. Goggles or safety glasses with a side shield
	are recommended.
RESPIRATORY PROTECTION:	Recommended as a safety precaution, specifically when working with powders. An approved respirator
	may be required for those individuals already known to be sensitive to these materials.
PROTECTIVE GLOVES:	Required when handling any of these materials.

SPECIAL PRECAUTIONS

This material is for research and experimental application only. It is not intended for food, drug, household, agricultural, or cosmetic use. All materials should be handled only by technically qualified individuals experienced with working with potentially hazardous chemicals. The above information is correct to the best of our knowledge. The user should make independent decisions regarding completeness of the information, based on all sources available. EY Laboratories, Inc. shall not be held liable for any damage resulting from handling or contact with the above product.



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