NO-WASH
STAINING KIT

STAT-Q™

No Wash, 3-Step Rapid Enzyme Immunostaining System

Background Free, Wash-Free

10 minute, 10 minute, 15 minute Incubations

Alkaline phosphatase System, Product # NB311KLF (w/ Innovex Faster Red chromogen)

60 ml of secondary linking antibody, 60 ml of alkaline phosphatase label, 70 ml of Innovex Fast Red Substrate/chromogen

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INTRODUCTION

Immunostaining detection systems are used to determine the presence, localization and density of antigens in binding assays. In immunohisto/cytochemistry (IHC) and in ELISA procedures antigens are either visualized or measured by enzyme immunochemical assays which employ detection systems that usually consist of a second step reagent of a biotinylated secondary antibody and a third step reagent of an enzyme such as alkaline phosphatase or horseradish Peroxidase (HRP) conjugated to an antibody, avidin or streptavidin. The enzyme is then incubated for a short time with its appropriate substrate and chromogenic substance for color development. The rate of color development measures the enzyme concentration by qualitative IHC (immunocytochemistry), semi quantitative (image analysis) or quantitative (ELISA) methods.

PRODUCT DESCRIPTION

"STAT-Q"Alkaline phosphatase Rapid Immunostaining System is a no-wash immunostaining detection system engineered for shorter incubation of steps and to minimize the lengthy washes of in between reagents usually required with other staining systems. This detection system is universally applicable to staining all mouse, rat and rabbit primary antibodies. This system is also applicable to tissues and cell specimens of all species source. This system is further applicable to all tissues and cells regardless of their method of processing, e.g., paraffin sections, cryostat sections, cytocentrifuge preparations or cell smears.

"STAT-Q" Rapid Immunostaining System is designed as a highly sensitive three step indirect system for detection of monoclonal or polyclonal antibodies from mouse or rabbit source. The system is designed to be virtually free of inherent background often seen with other systems.
"STAT-Q" detection system is also designed to eliminate the need for re-titration of primary antibodies upon the switch over to this system. When employing this immunostaining system, no adjustment of currently employed primary antibody dilutions are necessary. Simply replace "STAT-Q" in place of the current detection system.
In addition to shorter incubation steps, STAT-Q detection system also offers user the choice of increased primary antibody dilution and decreased primary incubation time when employing "Enhancing wash buffers" (signal amplification wash buffers) in place of PBS or Tris buffers for the rinsing steps.

SYSTEM COMPONENTS

- Multivalent secondary linking antibody.
- Alkaline phosphatase conjugate Label (with no loss of enzyme activity with time)
- Two component Innovex Fast Red substrate/chromogen for use with alkaline phosphatase enzyme label.

APPLICATION / INTENDED USE

This product is intended for immunolocalization of mouse, rat and rabbit primary antibodies in tissue and cell smears in immunohisto/cytochemical staining and in ELISA procedures.

STORAGE CONDITIONS

Store in refrigerator at 2-8ºC through expiration date noted on the vial.

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SYSTEM COMPONENT SPECIFICATIONS

Recommended incubation times for the system are:

Primary antibodies: **30 minutes to 1-hour (not provided).**

- Secondary Linking Antibody: **10 minutes.**
- Alkaline phosphatase enzyme conjugate **10 minutes.**
- Innovex Fast Red chromogen: **15 minutes**

INSTRUCTIONS

ALL INNOVEX PRODUCTS ARE DESIGNED TO BE IMPLEMENTED AT ROOM TEMPERATURE (NO HEAT IS REQUIRED).

NO protein or serum blocking required when staining human tissue. A 30-minute blocking with Innovex Background Buster is highly recommended when staining animal tissues.

A 5 second rinses in between incubations steps are sufficient. No extensive washes are required when staining with Innovex staining systems.

Following deparaffinization

1. For human tissues incubate the section or smear for **30 minutes to 1-hour** with mouse, rabbit or rat primary antibodies (not provided). When using other manufacturer's primary antibodies observe their recommended incubation time for each primary antibody employed.
2. Rinse with PBS or "Alkaline phosphatase-Enhancing wash buffer" (Innovex product #NB301) for 10 seconds.
3. Incubate with the secondary linking antibody for **10 minutes**.
4. Rinse with PBS or "Alkaline phosphatase-Enhancing wash buffer" for 5 seconds.
5. Incubate with Alkaline phosphatase-streptavidin label for **10 minutes.**
6. Rinse with PBS or "Alkaline phosphatase-Enhancing wash buffer" for 10 seconds.
   For using Innovex Fast Red chromogen, mix prior to use by adding on Fast Red tablet to 5 ml of Ready-to-use substrate buffer in the provided graduated mixing tube, mix well.
7. Incubate with mixed Innovex Fast Red/substrate for **15 minutes**.
8. Rinse with water.
9. Optional: Apply Fast Red Enhancer for 10 minutes. This would amplify the Fast Red stain and darkens it to an intense red for better-contrasted viewing (**OPTIONAL**).
10. Counterstain with an aqueous based hematoxylin (Innovex Product #NB305).
11. Mount slides with aqueous based permanent "Advantage Mounting Media" (Innovex Product #NB300).

FOR PROFESSIONAL AND RESEARCH USE ONLY

FOR ADDITIONAL TECHNICAL SUPPORT
CALL: 1.800.622.7808 US and Canada
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