

STAT-Q™ Alkaline Phosphatase Labeled Streptavidin **Stand-alone component of STAT-Q Alkaline phosphatase Staining System**

Stable & amplified alkaline phosphatase-streptavidin conjugate for Rapid IHC & ICC staining of human and animal tissues

Background-free, 10-minutes incubation time

- **60 ml of STAT-Q Alkaline Phosphatase Labeled Streptavidin (Stand-alone Component of STAT-Q Alkaline Phosphatase kit),**
Product number: **NB311L**, 800-1,000 slides
- **20 ml of STAT-Q Alkaline Phosphatase Labeled Streptavidin (Stand-alone Component of STAT-Q Alkaline Phosphatase Kit),**
Product number: **NB311L-20**, 200-300 slides

INTRODUCTION

Immunostaining detection systems are used to determine the presence, localization and density of antigens in binding assays. In immunohisto/cytochemistry (IHC & ICC) and in ELISA procedures antigens are 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 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 and ICC assays or by Semi quantitative assays (image analysis) or by quantitative assay (ELISA).

PRODUCT DESCRIPTION

“STAT-Q” Rapid IHC & ICC Immunostaining System is a no-wash IHC and ICC staining system bioengineered for shorter incubation steps and minimal wash steps. This system is applicable to staining all tissues and cells of human and animal tissues. This system is further applicable to staining paraffin sections, cryostat sections, cytocentrifuge preparations and cell smears.

“STAT-Q” Alkaline phosphatase-streptavidin label is background-free, amplified and stabilized enzyme conjugate and is a component of STAT-Q Alkaline phosphatase staining kit and needs to be used in conjunction with other components of STAT-Q kit to achieve staining results.

STAT-Q kit and its reagent components are 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 dilution is necessary, simply replace “STAT-Q” kit and its components in place of current detection system employed.

In addition to shorter incubation steps, STAT-Q detection system also offers user the choice of increased primary antibody dilution and/or decreased primary incubation time when employing “Enhancing wash buffer” in place of PBS or tris buffers for the rinse steps.

SYSTEM COMPONENT PROVIDED (STAND-ALONE COMPONENT)

- STAT-Q Alkaline phosphatase Label is background-free, amplified and stabilized enzyme conjugate with no loss of enzyme activity with time; Recommended incubation time is 10-15 minutes.

APPLICATION / INTENDED USE

This product is intended for immunolocalization of primary antibodies in tissue and cell preparations for immunohistochemical IHC, ICC staining. **This component must be used in conjunction with other components of STAT-Q Alkaline phosphatase kit to achieve staining.**

CONTINUED NEXT PAGE

STORAGE CONDITIONS

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

INSTRUCTIONS

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

Following retrieval for paraffin sections:

1. Incubate the section with the primary antibody of choice (not provided): Observe manufacturer recommended titer and incubation time.
2. Rinse with PBS or "Alk Phos Enhancing wash buffer" (Innovex product # NB301) for 10- seconds.
3. Incubate with STAT-Q Linking Antibody for **10- minutes**.
4. Rinse with PBS or "Alk Phos Enhancing wash buffer" for 10-seconds.
5. Incubate with STAT-Q Alkaline Phosphatase Label for **10-minutes**.
6. Rinse with PBS or "Alk Phos Enhancing wash buffer" for 10 seconds.
When using Innovex Fast Red substrate/chromogen, mix prior to use by dissolving a Fast Red tablet to 5 ml of substrate buffer.
7. Incubate with mixed Innovex Fast Red substrate/ chromogen for **15-minutes or with other suitable substrate/ chromogens available for alkaline phosphatase staining.**
8. Rinse with water.
9. Counterstain with aqueous based hematoxylin (Innovex Product #NB305).
10. Mount slides with aqueous based permanent "Advantage Mounting Media" (Innovex Product #NB300).

Important Notes:

- Innovex STAT-Q staining kits & kit reagents are minimal wash; A one time 10-second washes in between incubation steps will be sufficient.
- Innovex STAT-Q and POLYMER HISTO-STAT staining kits and its components are free of background and do not require pre-protein blocking or serum blocking prior to the application of primary antibody.
- Innovex Staining Systems and primary antibodies are bioengineered to be free of background, however, when background staining is observed due to tissue processing, fixation, primary antibodies or mix and matching of reagents from different sources, application of Background Buster (product # NB306) and/or Fc Receptors Blocker (product# NB309) is highly recommended. Use of Background Buster and Fc Blocker help with eradication of background staining.

FOR PROFESSIONAL AND RESEARCH USE

FOR ADDITIONAL TECHNICAL SUPPORT

techsupport@innovexbio.com

Phone: (510) 234-6600

Web: innovexbio.com

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