

STAT-Q™
STAT-Q, Anti Rat-Mouse adsorbed Kit
For staining Rat antibodies on mouse tissues

Amplified anti Rat- Mouse adsorbed staining kit for and Wash-free, Background-Free, Rapid IHC staining

10 minutes, 10 minutes, 5 minute Incubations

Product # NB314MAK-DAB, 15ml of STAT-Q Rat-Mouse adsorbed (200-300 Tests)

Product # NB314MAK-AEC, 15ml of anti Rat- Mouse adsorbed (200-300 Tests)

INTRODUCTION

Immunostaining detection systems are used to determine the presence, localization and density of antigens in binding assays. In immunohistochemistry (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 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 or by semi quantitative (image analysis) or quantitative (ELISA) methods.

PRODUCT DESCRIPTION

Innovex STAT-Q, Mouse Adsorbed Rapid Immunostaining System is a Background- Free, No-wash immunostaining system engineered for shorter incubation steps and minimizing the lengthy washes in between each incubation steps that are usually required with other staining systems. This staining system is universally applicable to all rat primary antibodies that are stained in mouse tissues. This system is also universally applicable to tissues and organs of all species. 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 all rat antibodies. 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

- Biotinylated anti Rat Linking Antibody -Mouse Adsorbed: 10 minutes incubation.
- Stabilized horseradish peroxidase-streptavidin label (with no loss of activity of peroxidase enzyme activity with time)
- Turbo action two components liquid DAB or two component AEC for use with Peroxidase-label.

CONTINUED OVER

APPLICATION / INTENDED USE

This product is intended for immunolocalization of all rat primary antibodies in Mouse tissues and cell smears.

STORAGE CONDITIONS

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

SYSTEM COMPONENT SPECIFICATIONS

Recommended incubation times for the system are:

Primary antibodies: (not provided), observe manufacturer's recommended incubation time. The use of Innovex enhancing wash buffers in place of PBS or Tris wash buffers allows the primary antibody incubation time to be cut in half.

Biotinylated anti Rat Linking Antibody (Mouse adsorbed): **10 minutes.**

Stabilized Horseradish Peroxidase enzyme conjugated streptavidin label: **10 minutes.**

Stable Turbbo AEC: **10 minutes** or liquid DAB chromogen: **5 minutes.**

INSTRUCTIONS

1. Quench endogenous peroxidase activity by immersing tissue slides in 3% hydrogen peroxide (H_2O_2) prepared in water or 10 minutes. This step is essential to eliminate red blood cell staining.
2. Incubate the section or smear with the primary antibody of choice (not provided), observe manufacturer's recommended incubation time. The use of Innovex Signal Enhancing wash buffers (Innovex "HRP-Enhancing wash buffer" product #NB301) in place of PBS or Tris wash buffers allows the primary antibody incubation time to be cut in half.
3. Rinse with PBS or "HRP-Enhancing wash buffer" for 5 seconds.
4. Incubate with the Rat Linking Antibody (mouse adsorbed) for **10 minutes.**
5. Rinse with PBS or "HRP-Enhancing wash buffer" for 5 seconds
6. Incubate with Peroxidase-streptavidin label for **10 minutes.**
7. Rinse with PBS or "HRP-Enhancing wash buffer" for 5 seconds.
8. Incubate with mixed DAB/substrate for **5 minutes** or mixed AEC/substrate solution for **10 minutes** (See chromogen mixing protocol below).
9. Rinse in tap water.
10. Counterstain with an aqueous based hematoxylin (Innovex Product #NB305).

Mount slides with Xylene based mounting media or with Innovex Advantage Mounting Media" (Innovex Product #NB300).

Chromogen mixing protocol

When using DAB chromogen mix DAB by adding 2 drops of DAB chromogen (component 2) to 2 ml of Ready-To-Use substrate buffer (component 1) in the provided graduated mixing tube. Mix by inversion. Mixed DAB chromogen is stable for at least one week when kept refrigerated.

When using AEC chromogen, mix AEC by adding 2 drop of AEC chromogen (component 2) to 2 ml of Ready-to-use substrate buffer (component 1) in the provided graduated mixing tube. Mix by inversion. Mixed AEC chromogen is stable for at least one week when kept refrigerated.