

STAT-Q™
STAT-Q, Anti Mouse-Rat adsorbed Kit
For IHC staining of Mouse antibodies on rat tissues

Amplified anti Mouse-Rat adsorbed staining kit for and Wash-free, Background-Free, Rapid IHC staining of Mouse antibodies on rat tissues
10 minutes, 10 minutes, 5 minute Incubations

Product # NB314RAK-DAB, 15ml of STAT-Q anti Mouse-Rat adsorbed (200-300 slides)
Product # NB314RAK-AEC, 15ml of STAT-Q anti Mouse- Rat adsorbed (200-300 slides)

INTRODUCTION

Immunostaining (IHC) detection systems are used to determine the presence, localization and density of antigens in binding assays. In immunohisto/cytochemistry and in ELISA procedures antigens are either visualized or measured by enzyme immunochemical assays which employ detection systems that usually consist of a biotinylated secondary antibody and a third step reagent of an enzyme such as alkaline phosphatase or horseradish peroxidase conjugated to an antibody or 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 staining or by semi quantitative (image analysis) or quantitative (ELISA) methods.

PRODUCT DESCRIPTION

Innovex "STAT-Q" anti Mouse-Rat adsorbed staining kit is intended for wash free, background free rapid IHC staining of primary antibodies raised in mouse and stained on rat tissues (mouse-on-rat). This STAT-Q staining system includes a monovalent biotinylated anti mouse-rat adsorbed secondary linking antibody and peroxidase (HRP) enzyme labeled streptavidin and choice of DAB or AEC substrate/chromogen. Innovex STAT-Q-Rat adsorbed staining kit is bio-engineered to be free of background and it employs short 10-minute incubation steps. This staining kit is especially designed for staining mouse primary antibodies on rat tissues for no cross-reactivity or background. This kit is applicable to staining all tissues and cells regardless of their method of processing, e.g., paraffin sections, cryostat sections, cytocentrifuge preparations or cell smears.

This staining system component is designed to be virtually free of inherent background often seen with other systems. Therefore; No serum or protein pre-blocking is necessary.

APPLICATION / INTENDED USE

This product is intended for staining of MOUSE primary antibodies on RAT tissues and cells by IHC procedures.

SYSTEM COMPONENTS and SPECIFICATIONS

- Stable Peroxide Block.
- Anti Mouse-Rat adsorbed Secondary Linking Antibody.
- Stabilized horseradish peroxidase-streptavidin label (with no loss of activity of peroxidase enzyme activity with time).
- Stable Turbo action 2-component Liquid DAB **OR** Stable 2-components liquid AEC.

APPLICATION / INTENDED USE

This product is intended for IHC staining of all mouse primary antibodies-on-Rat tissues and cells.

SYSTEM COMPONENT SPECIFICATIONS

Recommended incubation times for the system are:

- Stable Peroxide Block: **15-minutes.**
- Mouse primary antibody (not provided): Follow manufacturer's antibodies recommended incubation time.
- Anti Mouse-Rat adsorbed biotinylated Linking Antibody: **10-minutes.**
- Horseradish Peroxidase enzyme (HRP) conjugated streptavidin label: **10-minutes.**
- Stable liquid DAB chromogen: **5-minutes OR** Stable Turbo AEC: **15-minutes**

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INSTRUCTIONS

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

NO protein blocking and NO extensive washes are required when staining with this staining kit

1. Following deparaffinization quench endogenous peroxidase activity by applying INNOVEX STABLE PEROXIDE BLOCK for 15-minutes (provided in the kit) OR in absence of INNOVEX Peroxide Block; Achieve same result by immersing tissue slides in freshly made 3% hydrogen Peroxide (H₂O₂) prepared in DI water for paraffin sections. This step is essential to eliminate red blood cell staining. For frozen sections; Use INNOVEX Peroxide Block OR 0.3% hydrogen Peroxide (H₂O₂) prepared in DI water.
2. Rinse with water for **1 minute**.
3. Incubate the section or smear for **10-30 minutes** or longer with mouse primary antibodies (not provided). Follow manufacturer's recommended incubation time for each primary antibody employed.
4. Rinse with PBS or INNOVEX Enhancing Wash Buffer for **5-seconds**.
5. Incubate with the Anti Mouse-Rat adsorbed Secondary Linking antibody (provided in the kit) for **10-minutes**.
6. Rinse with PBS or INNOVEX Enhancing Wash Buffer for **5-seconds**.
7. Incubate with Peroxidase-Streptavidin label for **10-minutes**. (provided in the kit).
8. Rinse with PBS or INNOVEX Enhancing Wash Buffer for **5-seconds**.
9. Incubate with mixed Liquid DAB/substrate solution for **5-minutes OR** Incubate with mixed AEC/Substrate for **15-minutes** (provided in the kit); **See chromogen mixing protocol below.**
10. Rinse in tap water.
11. Counterstain with hematoxylin or counterstain of choice.
12. Mount slides with xylene based mounting media or mount from water with aqueous based permanent "Advantage Mounting Media" (Innovex Product #NB300).

Substrate/Chromogen Mixing Protocol

- When using DAB chromogen, **mix DAB/Substrate solution 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 or tube of choice and mix. Left over mixed DAB substrate/chromogen solution is stable for 1-week when kept refrigerated. This minimizes DAB waste and disposal costs and efforts.
When darker DAB stain is desired, apply Innovex Quick DAB Enhancer solution (product# NB308) for 2-minutes at room temperature after DAB is fully rinsed with water. THIS STEP IS OPTIONAL; **Innovex DAB Enhancer is best applied before counterstaining and for 2-minutes and should be rinsed with water. INNOVEX DAB Enhancer does not cause background.**
- When using AEC chromogen (for development of red stain) **mix AEC by adding 2 drops of AEC Chromogen** (component 2) **to 2 ml of Ready-To-Use Substrate Buffer** (component 1) in the provided graduated mixing tube or tube of choice and mix. Left over mixed AEC substrate/chromogen solution is stable for 2-weeks when kept refrigerated. This minimizes the reagent waste and disposal costs and efforts.

STORAGE CONDITIONS

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

NOTES:

For staining frozen sections, incubation times of the STAT-Q staining components may be reduced to 5 minutes for both Secondary linking antibody and enzyme label.

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

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FOR ADDITIONAL TECHNICAL SUPPORT
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