INNOVEX biosciences

STAT-Q
MONOVALENT Anti GOAT Secondary LINKING ANTIBODY

No Wash, No-Background amplified Biotinylated Secondary anti Goat Linking Antibody for Rapid IHC & ICC staining of Goat antibodies

Product # NB318LG-20; 20 ml of anti-Goat Secondary Linking Antibody

INTRODUCTION
Immunostaining detection or staining 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 either visualized or measured by enzyme immunochemical assays that 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), semi quantitative (image analysis) or quantitative (ELISA) methods.

PRODUCT DESCRIPTION
Innovex STAT-Q" anti-Goat Secondary Linking antibody for rapid IHC and ICC staining is a minimal wash,
Immunostaining reagent and a component of the STAT-Q detection system that is bio-engineered for shorter incubation time. **This component of STAT-Q staining system is a monovalent secondary anti Goat biotinylated secondary antibody that is applicable to staining all GOAT primary antibodies.** This reagent is also applicable to staining tissues and cell preparations of all species source and is further applicable to staining all tissues and cells regardless of their method of processing, e.g., paraffin sections, cryostat sections, cytocentrifuge preparations and cell smears.
"STAT-Q" Goat Linking Antibody is suitable for staining of all primary antibodies from goat species. **This staining system component is designed to be free of inherent background often seen when staining goat antibodies. Blocking with INNOVEX Background Buster is required when staining Goat primary antibodies (See instruction section of this data sheet).**

APPLICATION / INTENDED USE
This product is intended for staining of primary antibodies that are raised in goat for the purpose of IHC, ICC and IF staining of tissues and cell preparations such as cytospins and cell smears.

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

SYSTEM COMPONENTS and SPECIFICATIONS
Recommended incubation times for Innovex-STAT-Q staining system components are:
primary antibodies (not provided): Observe manufacturer's recommended incubation time.
- **STAT-Q anti Goat Secondary Linking Antibody: 15-minutes.**

INSTRUCTIONS
ALL INNOVEX PRODUCTS ARE DESIGNED TO BE IMPLEMENTED AT ROOM TEMPERATURE (NO HEAT IS REQUIRED).
1. Quench endogenous peroxidase activity by immersing tissue slides in 3% freshly made hydrogen peroxide (H_2O_2) prepared in DI water for 10-minutes OR **Incubate with INNOVEX STABLE PEROXIDE BLOCK for 15-minutes;** This step is essential for eliminating red blood cell staining.
2. Rinse with water by filling and emptying slide holding vessel 4-times.
3. Retrieve paraffin sections with INNOVEX UNI-TRIEVE method OR with HIER; No background staining is observed when sections are retrieved with UNI-TRIEVRE.
4. Apply 2-4 drops of Innovex "Background Buster" to achieve specimen coverage; Incubate for 20-minutes; This step is essential for removal of background when staining goat antibodies.

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5. Rinse with PBS for 10-seconds prior to the application of primary antibody.
6. Incubate the section or smear for 30-minutes to 1-hour with Goat primary antibodies (not provided); **Observe manufacturer's recommended incubation time for primary antibody employed.**
7. Rinse with PBS for **10-seconds**
8. Incubate with STAT-Q Goat Linking Secondary Antibody for **15-minutes**.
9. Rinse with PBS for **10-seconds**
10. Incubate with Innovex STAT-Q, Peroxidase-streptavidin label for **10-minutes**.
11. Rinse with PBS for **10-seconds**
12. Incubate with mixed DAB/substrate solution for **5-minutes** OR with Innovex mixed AEC/substrate for
13. **15-minutes** (See chromogen mixing protocol below).
14. Rinse with water.
15. Counterstain with hematoxylin (Innovex Product: NB305).
16. Mount slides from water with Innovex aqueous based permanent "Advantage" Mounting Media (product: NB300) OR mount from xylene with xylene based mounting media by dehydrating and clearing in alcohol and xylene prior to coverslippig.

Important Notes:

- Innovex STAT-Q (3 step) and HISTO-STAT (1-step Polymer) staining kits are no wash staining kits, a one time 10 second washes in between each incubation steps will be sufficient.
- Most goat primary antibodies generate background staining, application of INNOVEX BACKGROUND BUSTER for 20-minutes is essential for removal of background staining.
- Innovex Staining systems and primary antibodies are bioengineered to be free of background, however, when background staining is observed due to tissue specimen, tissue processing/ fixation and use of polyclonal antibodies such as goat antibodies; Observe the followings:

  Apply Background Buster (product NB306) prior to incubation with primary antibody.

  in addition, applying Fc Receptor Blocker (product NB309) for lymphoid tissues, melanomas and other tissues rich in Fc receptors may be needed to further eradicate background and non-specific staining.

  When Background Buster and Fc Blocker both are employed; Fc Blocker, product number NB309 must be applied first, rinsed and followed by incubation with Background Buster, product number NB306.

FOR PROFESSIONAL AND RESEARCH USE ONLY

FOR ADDITIONAL TECHNICAL SUPPORT
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