

**Cyto Q
ImmunoDiluent & Block**
Advanced Antibody Stabilizing-Diluting and Storage Solution

Technical Data Sheet

Reagent Category

Antibody Diluting and Storage Buffer

Specific Reagents Supplied

- 125 ml of Cyto Q ImmunoDiluent & Block
- 50 ml of Cyto Q ImmunoDiluent & Block

PRODUCT # NB307 (Green color indicator)
PRODUCT # NB307-50 (Green color indicator)
PRODUCT # NB307-C (Clear)
PRODUCT # NB307-C-50 (Clear)

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**INTRODUCTION**

Antibodies require dilution in a diluting solution for performing immunoassays. Antibodies also require proper storage condition to prevent loss of activity and breaking down of antibodies and immunoglobulins. Traditionally, antibody diluting buffers only consists of a buffered saline and some carrier proteins. This formulation is non-adequate for long term storage of antibodies and immunoglobulins.

**PRODUCT DESCRIPTION**

“**Cyto Q Immuno Diluent**” is an advanced diluting solution applicable to dilution of all antibodies and immunoglobulins for performing immunoassays such as in immunohistochemistry (IHC), immunofluorescence (IF), ELISA and flow cytometric assays.

“**Cyto Q Immuno Diluent**” is formulated to stabilize antibodies, to block non-specific binding sites, to facilitate higher degree of antigen and antibody binding and therefore allowing higher dilution of antibodies to be employed for immunoassays.

“**Cyto Q Immuno Diluent**” is also formulated for long-term storage of antibodies. **Antibodies diluted and stored in Cyto Q ImmunoDiluent remain stable in refrigerator (2-8 °C) for 4 years. This minimizes the need for aliquoting and freezing antibodies at -20 °C and -70 °C. When antibodies are intended for storage beyond 4 years, aliquoting in ImmunoDiluent and freezing at -20 °C is recommended.**

“**Cyto Q Immuno Diluent**” also prevents drying of tissues and cell smears during long incubation periods of 2-hours to overnight that are often employed for some primary antibodies in IHC procedures. **Diluting antibodies in “Cyto Q ImmunoDiluent” eliminates the set up and use of a humidified chamber for antibodies requiring 2-hours to overnight incubation. Antibodies, isotype controls remain moist and fully active on slides for 36 hours.**

“**Cyto Q Immuno Diluent**” also assists in blocking non-specific staining caused by non-specific binding of primary antibodies.

This diluent is applicable to diluting antibodies for all immunoassay types such as immunohistochemistry (IHC), Immunofluorescence (IF), ELISA and flow cytometric assays. It can also be used for dilution of secondary antibodies employed in IHC and IF.

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## APPLICATION / INTENDED USE

This reagent is intended for dilution and storage of concentrate antibodies.

## PRODUCT FORMAT

Working solution, **NO** dilution or adjustments required.

## STORAGE CONDITIONS

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

## INSTRUCTIONS

1. For lyophilized antibodies: Add recommended volume of ImmunoDiluent & Block and store in refrigerator at 2-8°C for 4 years. For prolonged shelf life beyond 4 years, dilute in ImmunoDiluent & Block and aliquot and freeze in -20 °C freezer.
2. For liquid concentrate antibodies: Dilute by the dilution factor recommended for the immunoassay of interest. Diluted antibodies in ImmunoDiluent & Block are stable in refrigerator for 4 years. For prolonged shelf life beyond 4 years, aliquot and freeze in -20 °C freezer.
3. For continuous use; Dilute antibodies in “**Cyto Q Immuno Diluent**” and store in refrigerator at 2-8°C. For extended storage over 4 years; Aliquot in small volumes and freeze at -20°C.

## NOTES

For best results do **not** thaw and freeze antibodies more than once. Antibodies lose activity upon repeated freezing and thawing.

**FOR RESEARCH USE ONLY**

**FOR ADDITIONAL TECHNICAL SUPPORT**  
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**Phone: (510) 234-6600      Web: [innovexbio.com](http://innovexbio.com)**

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