

Fc Receptor Blocker (AZIDE –FREE)

For use with Non-Fixed live cells and functional assays

Technical Data Sheet

Reagent Category

Azide-Free Fc Receptor Blocking agent

Specific Reagents Supplied

30 ml of Azide-Free Fc Receptor Ready-To-Use

PRODUCT Number: NB335 (30ml), 400-600 slides

INTRODUCTION

Fc receptors are glycoproteins of approximate molecular weights of 50-70 kD. They are mostly present on white blood cells such as monocytes, tissue macrophages, B cells, T cells, granulocytes and on majority of tumor cells and cell lines. Fc receptors have great affinity for the Fc region of monomeric IgG (antibody) and non-specific staining and background staining can result from the binding of the Fc region of the Immunoglobulins/ antibody to the Fc receptors present on cells. Such examples of Fc receptor rich specimens are lymphoid tissues, tonsil sections, bone marrow preparations, tumor cells, tumor cell lines melanomas and blood smears.

PRODUCT DESCRIPTION

Fc Receptor Blocker can be used as a blocking agent to block Fc receptors present on hematopoietic (blood derived), lymphoid cells/tissues and tumor cells and cell lines. The binding of the Fc region of the primary or the secondary antibody to the Fc receptors present on the surface of leukocytes (white blood cells) or tumor cells gives rise to non-specific binding and is observed as background or non-specific staining in IHC, fluorescence and flow cytometry assays.

Azide-free Fc receptor blocker does not contain sodium azide or thimerosal and it is therefore suitable for effective blocking of Fc receptors in non-fixed live cells of lymphoid and hematopoietic origin as well as tumor cells and cell lines that carry Fc receptors on their surface. Specimens rich in Fc receptors are many and include tonsil, bone marrow, lymph nodes, blood cell preparations melanomas and majority of tumor cells and cell lines.

Azide-free Fc Receptor Blocker is especially helpful for blocking Fc receptors in tumor cells or cell lines employed in functional assays where sodium azide and other preservatives cause endocytosis and result in cytotoxicity and cell damage.

APPLICATION/INTENDED USE

This reagent is intended to be used as a blocking agent for blocking Fc receptors in hematopoietic, lymphoid specimens as well as tumor cells and cell lines that express Fc receptors.

CONTINUED OVER

PRODUCT FORMAT

Working solution, **no** dilution or adjustments necessary.

STORAGE CONDITIONS

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

INSTRUCTIONS

For Blocking Fc receptors in live cells and for use in functional assays

Azide-free Fc Receptor Blocker is used in Non-Fixed live cells and cell lines and for functional assays where sodium azide and other preservatives cause endocytosis, cytotoxicity and cell damage.

Live cell assays and functional assays are varied and are many in numbers. To block Fc receptors present on live cells or cell lines that express Fc receptors: Live cells must be exposed to Innovex Fc Blocker for a period of at least 30-minutes. The optimal incubation time with Fc Blocker must be determined by the lab user for the specific cells, species and the assay condition employed.

1. Add 0.2-0.5 ml of Fc receptor block for 10^6 cells
2. Incubate for 30 minutes to 2-hours on ice or at room temperature.
3. Rinse with assay wash buffer or DI water.
4. Proceed with assay.

For Flow Cytometry

1. Lyse or ficol blood as usual.
2. Add 0.3 ml of Fc receptor block for 10^6 cells.
3. Incubate for 30 minutes on ice.
4. Wash twice in assay wash buffer.
5. Proceed with antibody staining.

FOR LABORATORY USE ONLY