

Fc Receptor Binding Inhibitor Polyclonal Antibody, eBioscience™

| Product Details | |
|--------------------|-------------------------|
| Size | 25 Tests |
| Species Reactivity | Human |
| Published Species | Zebrafish, Human, Mouse |
| Host/Isotype | Not Applicable |
| Class | Polyclonal |
| Type | Antibody |
| Conjugate | Unconjugated |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2 |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C |
| RRID | AB_468581 |

| Applications | Tested Dilution | Publications |
|-----------------------|-----------------|-----------------|
| Flow Cytometry (Flow) | 20 µL/test | 22 Publications |
| Functional Assay (FN) | - | 1 Publication |

Product Specific Information

Description: The human FcγR-binding inhibitor can be used to inhibit the non-specific Fc-gamma receptor (FcγR)-mediated binding of mouse monoclonal antibodies used for flow cytometric analysis of human tissue. Four different classes of Fcγ receptors have been identified: FcγRI (CD64), FcγRII (CD32), and FcγRIII (CD16), and they are expressed at varying levels in multiple cell lineages including high expression in myeloid, granulocyte and B cells. The biological function of the FcγR, including initiation of endocytosis, phagocytosis and antigen presentation, is elicited upon binding of host-immunoglobulin. The extent to which mouse monoclonal antibodies will bind to human FcγR varies depending on the isotype of the monoclonal antibody. Furthermore, different monoclonal antibodies of the same isotype will display different binding to human FcγRs.

Applications Reported: Purified Fc Receptor Binding Inhibitor has been reported for use in flow cytometric analysis.

To inhibit the non-specific binding of mouse monoclonal antibodies add the human Fc Receptor Binding Inhibitor to samples and incubate on ice for 20 minutes. Without washing proceed to stain with primary antibody.

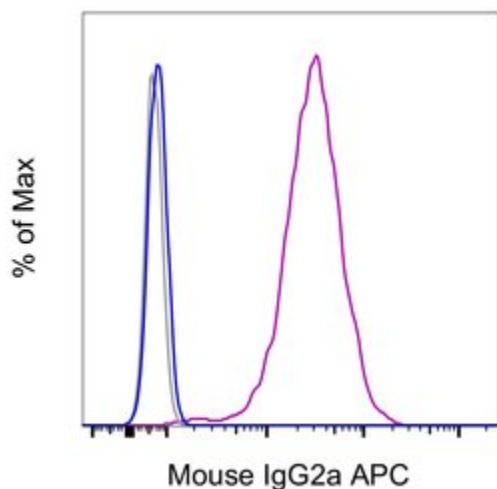
Applications Tested: Purified human Fc γR-binding inhibitor has been pre-titrated and tested by inhibiting binding of fluorochrome-conjugated isotype controls to U937 cells. This can be used at 20 µL per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

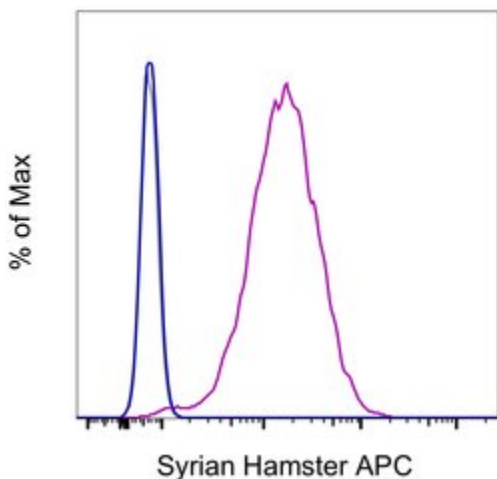
Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Fc Receptor Binding Inhibitor Polyclonal Antibody, eBioscience™



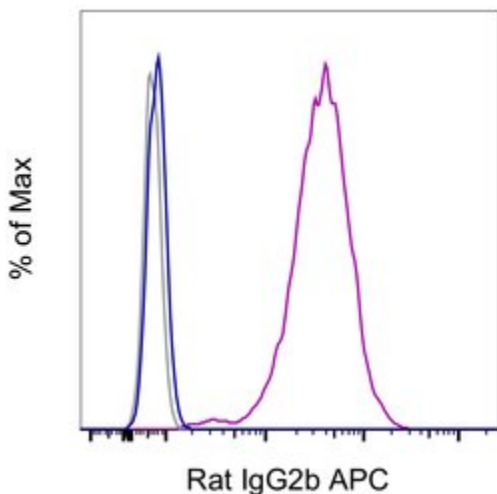
Fc Receptor Binding Inhibitor Antibody (14-9161-71) in Flow

Fc receptor-mediated non-specific binding is blocked by Fc Receptor Binding Inhibitor. THP-1 cells were left untreated (purple histogram) or treated with Fc Receptor Binding Inhibitor Antibody (blue histogram) for 15 minutes at 4C. The cells were then stained with 0.5 µg of Mouse IgG2a kappa Isotype Control, APC (Product # 17-4724-81). The grey histogram represents autofluorescence of unstained cells. Viable cells were used for analysis as determined by staining with Fixable Viability Dye 780 (Product # 65-0865).



Fc Receptor Binding Inhibitor Antibody (14-9161-71) in Flow

Fc receptor-mediated non-specific binding is blocked by Fc Receptor Binding Inhibitor. THP-1 cells were left untreated (purple histogram) or treated with Fc Receptor Binding Inhibitor Antibody (blue histogram) for 15 minutes at 4C. The cells were then stained with 0.25 µg of Syrian Hamster Isotype Control, APC (Product # 17-4914-81). The grey histogram represents autofluorescence of unstained cells. Viable cells were used for analysis as determined by staining with Fixable Viability Dye 780 (Product # 65-0865).



Fc Receptor Binding Inhibitor Antibody (14-9161-71) in Flow

Fc receptor-mediated non-specific binding is blocked by Fc Receptor Binding Inhibitor. THP-1 cells were left untreated (purple histogram) or treated with Fc Receptor Binding Inhibitor Antibody (blue histogram) for 15 minutes at 4C. The cells were then stained with 0.5 µg of Rat IgG2b kappa Isotype Control, APC (Product # 17-4031-82). The grey histogram represents autofluorescence of unstained cells. Viable cells were used for analysis as determined by staining with Fixable Viability Dye 780 (Product # 65-0865).

Flow Cytometry (22)

The Journal of biological chemistry

The active component of ginseng, ginsenoside Rb1, improves erythropoiesis in models of Diamond-Blackfan anemia by targeting Nemo-like kinase.

"14-9161-73 was used in Flow Cytometry to report that the active component of ginseng, ginsenoside Rb1, suppresses NLK expression and improves erythropoiesis in in vitro models of DBA."

Authors: Wilkes MC, Jung K, Lee BE, Saxena M, Sathianathan RS, Mercado JD, Perez C, Flygare J, Narla A, Glader B, Sakamoto KM

Species
Human

Dilution
Not Cited

Year
2021

International journal of obesity (2005)

Type 2 diabetes is associated with impaired jejunal enteroendocrine GLP-1 cell lineage in human obesity.

"14-9161-73 was used in Flow Cytometry to study the transcriptional profiles of enteroendocrine cells from obese or type 2 diabetic patients."

Authors: Osinski C, Le Gléau L, Poitou C, de Toro-Martin J, Genser L, Fradet M, Soula HA, Leturque A, Blugeon C, Jourdain L, Hubert EL, Clément K, Serradas P, Ribeiro A

Species
Human

Dilution
Not Cited

Year
2021

[View more Flow references on thermofisher.com](#)

Functional Assay (1)

Clinical & translational immunology

OX40, PD-1 and CTLA-4 are selectively expressed on tumor-infiltrating T cells in head and neck cancer.

"14-9161 was used in Blocking experiments to suggest that there may be therapeutic advantages of targeting these pathways independently or in combination for patients with this disease."

Authors: Montler R, Bell RB, Thalhofer C, Leidner R, Feng Z, Fox BA, Cheng AC, Bui TG, Tucker C, Hoen H, Weinberg A

Species
Human

Dilution
Not Cited

Year
2016

More applications with references on thermofisher.com

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