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 FcgammaR-binding inhibitor can be used to inhibit the non-specific Fc-gamma receptor (FcgammaR)-mediated binding of mouse monoclonal antibodies used for flow cytometric analysis of human tissue. Four different classes of Fcgamma receptors have been identified: FcgammaRI (CD64), FcgammaRII (CD32), and FcgammaRIII (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 FcgammaR, 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 FcgammaR varies depending on the isotype of the monoclonal antibody. Furthermore, different monoclonal antibodies of the same isotype will display different binding to human FcgammaRs.

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.

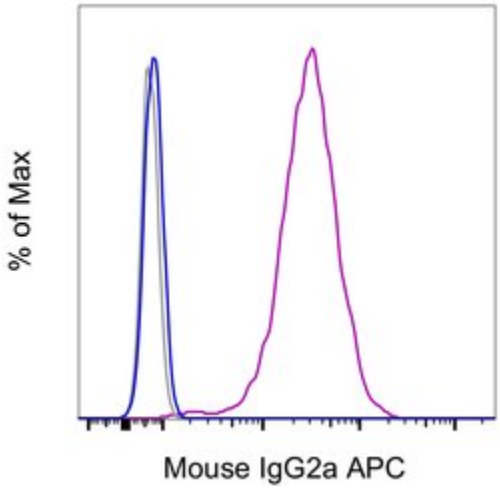
Applications Tested: Purified human Fc gammaR-binding inhibitor has been pre-titrated and tested by inhibiting binding of fluorochrome-conjugated isotype controls to U937 cells. This can be used at 20 µL per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

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

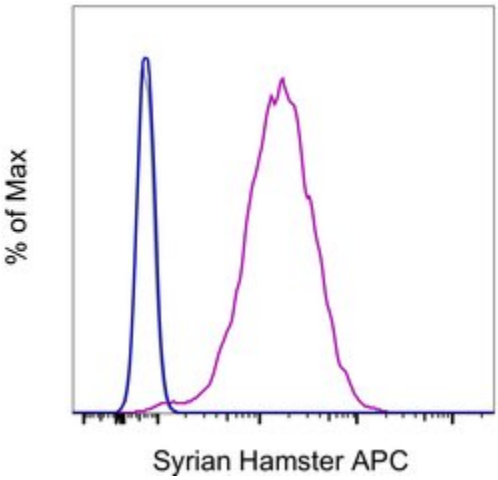
Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

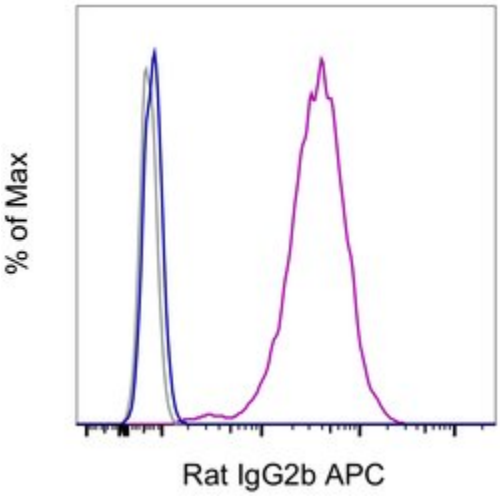
Product Images For Fc Receptor Binding Inhibitor Polyclonal Antibody, eBioscience™



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).

23 References

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,Sathianathen 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,Jourdren 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