

Fc Receptor Binding Inhibitor Polyclonal Antibody, eBioscience™

Product Details

Size	100 Tests
Species Reactivity	Rhesus monkey
Published Species	Human, Rhesus monkey
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_2572937

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (10 µg)/test	2 Publications

Product Specific Information

Description: The Rhesus Fc Receptor Binding Inhibitor can be used to inhibit the non-specific Fc receptor (FcR)-mediated binding of mouse monoclonal antibodies used for flow cytometric analysis of rhesus tissue. FcR are expressed at varying levels in multiple cell lineages including high expression in myeloid cells, granulocytes, and B cells. The biological function of the FcR, 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 rhesus FcR varies depending on the isotype of the monoclonal antibody.

eBioscience testing indicates that mouse IgG2a isotype is blocked by Rhesus Fc Receptor Binding Inhibitor.

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

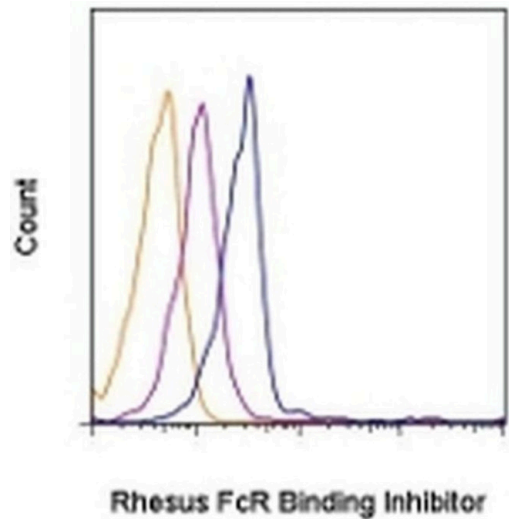
To inhibit the non-specific binding of mouse monoclonal antibodies add the Rhesus Fc Receptor Binding Inhibitor to samples and incubate on ice for 20 minutes. Without washing, proceed to stain with primary antibody.

Applications Tested: Rhesus Fc Receptor Binding Inhibitor has been pre-titrated and tested by flow cytometric analysis of normal rhesus peripheral blood cells. This can be used at 5 µL (10 µg) 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.



Fc Receptor Binding Inhibitor Antibody (14-9165-42) in Flow
Normal rhesus peripheral blood cells were unstained (orange histogram), stained with Mouse IgG2a K Isotype Control FITC (Product # 11-4724-42) (blue histogram), or were pretreated with Rhesus Fc Receptor Binding Inhibitor Purified and then stained with Mouse IgG2a K Isotype Control FITC (purple histogram). Cells in the monocyte gate were used for analysis.

2 References

Flow Cytometry (2)

<p>Cell reports</p> <p>Functional, transcriptional, and microbial shifts associated with healthy pulmonary aging in rhesus macaques.</p> <p>"14-9165-42 was used in Flow cytometry/Cell sorting to provide insight into age-related changes in the lungs' functional, microbial, and immunological landscape that explain increased prevalence and severity of respiratory diseases in the elderly."</p> <p>Authors: Rhoades NS,Davies M,Lewis SA,Cinco IR,Kohama SG,Bermudez LE,Winthrop KL,Fuss C,Mattison JA,Spindel ER,Messaoudi I</p>	<p>Year 2022</p> <p>Species Rhesus monkey</p>
<p>Journal for immunotherapy of cancer</p> <p>Rationally targeted anti-VISTA antibody that blockades the C-C' loop region can reverse VISTA immune suppression and remodel the immune microenvironment to potently inhibit tumor growth in an Fc independent manner.</p> <p>"14-9165-42 was used in Flow Cytometry to show that VISTA-induced immune suppression can be reversed by blockade of the functional C-C' loop region of VISTA with a first-in-class rationally targeted and non-depleting IgG4 isotype anti-VISTA antibody, HMBD-002."</p> <p>Authors: Thakkar D,Paliwal S,Dharmadhikari B,Guan S,Liu L,Kar S,Tulsian NK,Gruber JJ,DiMascio L,Paszkievicz KH,Ingram PJ,D Boyd-Kirkup J</p>	<p>Year 2022</p> <p>Species Human</p>

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