abcam

ab205544

PE/Cy7® Anti-IgG antibody [4A11]

Anti-IgG antibody [4A11] conjugated to PE/Cy7® - suitable for flow cytometry, and reacts with human samples. Clone [4A11] is a mouse monoclonal antibody cited in 3 publications.

Design your panel with our interactive flow cytometry panel builder. Click here.

Key facts

Isotype	IgG2b
Host species	Mouse
Conjugation	PE/Cy7®
Excitation/Emission	Ex: 565nm, Em: 778nm
Storage buffer	pH: 7.4 Preservative: 0.09% Sodium azide Constituents: PBS, 0.2% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human IGHG1. The exact immunogen used to generate this antibody is proprietary information. Database link P01857
Clone number	4A11
Purification technique	Size-exclusion chromatography
Specificity	ab205544 reacts with Fab fragment of Human IgG.
Light chain type	kappa
Purification notes	The ab205544 conjugate is made from highly purified antibodies (>95% by SDS-PAGE).

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	4 µL for 10^6 Cells
Notes	or 100 µl of whole blood

Target data

See full target information IGHG1

Function	Constant region of immunoglobulin (Ig) heavy chains. Igs are membrane-bound or secreted glycoproteins produced by B lymphocytes. In the recognition phase of humoral immunity, the membrane-bound Igs serve as receptors, which upon binding to a specific antigen trigger the clonal expansion and differentiation of B lymphocytes into Ig-secreting plasma cells. Secreted Igs known as antibodies mediate the effector phase of humoral immunity by blocking the interaction of infectious antigens with cellular receptors (via the antigen-binding region) and eliciting effector mechanisms that lead to pathogen neutralization (via the constant region) (PubMed:17576170, PubMed:20176268, PubMed:22158414). The antigen-binding region is formed by the variable domain of one heavy chain paired with the variable domain of its associated light chain. Each Ig molecule has two antigen-binding sites with remarkable affinity for a particular antigen due to V-(D)-J rearrangement, somatic hypermutations and affinity maturation of the variable domains upon antigen exposure (PubMed:17576170, PubMed:20176268, PubMed:22158414). The constant region defines the Ig isotype that perform distinct sets of effector functions. B cells diversify and rearrange their Ig constant regions through class-switch recombination, a process by which the constant region is switched from one Ig isotype to another, namely from IgM and IgD to IgG, IgA and IgE (PubMed:17576170, PubMed:20176268, PubMed:22158414). The constant region of Ig gamma-1 (IgG1) isotype interacts (via the fragment crystallizable, Fc) with receptors on innate immune cells and the complement system to mediate humoral effector functions, including antibody-dependent cellular cytotoxicity or phagocytosis, complement-dependent cytotoxicity and inflammatory responses.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Aliquoting information	Upon delivery aliquot

Storage information	Store in the dark

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

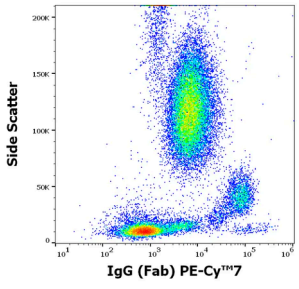
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

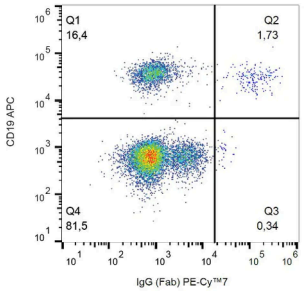
4 product images



Flow Cytometry - PE/Cy7® Anti-IgG antibody [4A11] (ab205544)

IgG Flow Cytometry staining using mouse Anti-IgG antibody

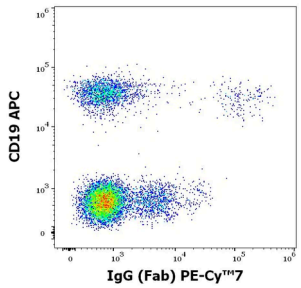
Flow cytometry surface staining pattern of human peripheral whole blood stained using ab205544 (concentration in sample 1 µg/ml).



Flow Cytometry - PE/Cy7® Anti-IgG antibody [4A11] (ab205544)

IgG Flow Cytometry staining using mouse Anti-IgG antibody

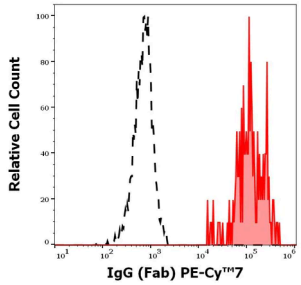
Flow Cytometry analysis of human peripheral blood cells labeling IgG with Anti-IgG antibody [4A11] (PE/Cy7 ®) (ab205544).



Flow Cytometry - PE/Cy7® Anti-IgG antibody [4A11] (ab205544)

IgG Flow Cytometry staining using mouse Anti-IgG antibody

Flow cytometry surface staining pattern of human peripheral whole blood stained using ab205544 (concentration in sample 1 µg/ml).



Flow Cytometry - PE/Cy7® Anti-IgG antibody [4A11] (ab205544)

IgG Flow Cytometry staining using mouse Anti-IgG antibody

Flow cytometry surface staining pattern of human peripheral whole blood stained using ab205544 (concentration in sample 1 µg/ml).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.