abcam

ab771

Anti-Human IgG Fab fragment antibody [4A11]

Anti-Human IgG Fab fragment antibody [4A11] (ab771) is a mouse monoclonal antibody detecting Human IgG Fab fragment in **Western Blot, Flow Cytometry**. Suitable for **Human**.

- Trusted since 2002

Key facts

Isotype	IgG2b
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.097% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Clone number	4A11
Purification technique	Affinity purification Protein A
Specificity	This antibody reacts with Fab fragment of human IgG. Specificity was confirmed by western blotting analysis of purified Fab fragment, of human IgG, under reducing conditions.
Light chain type	kappa
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified by precipitation and chromatography

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1-5 µg/mL
Notes	ab170192 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

WB

Tested

Species	Human
Dilution info	-
Notes	-

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 duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-Human IgG Fab fragment antibody [4A11] (ab771) is a mouse monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Flow Cyt) in Human samples.

Other related products
We have a range of other formats of antibody clone [4A11] also available for your convenience: ab771, ab205544, ab239260

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

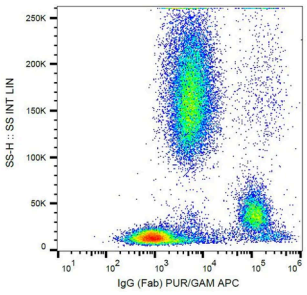
We do not recommend this combination. It is not covered by our product promise.

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.

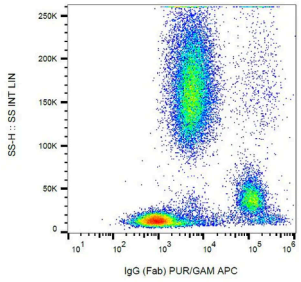
2 product images



Flow Cytometry - Anti-Human IgG Fab fragment antibody [4A11] (ab771)

Human IgG Fab fragment Flow Cytometry staining using mouse Anti-Human IgG Fab fragment antibody

Surface staining of human peripheral blood cells with ab771. An APC-conjugated goat anti-mouse IgG was used as the secondary antibody.



Flow Cytometry - Anti-Human IgG Fab fragment antibody [4A11] (ab771)

Human IgG Fab fragment Flow Cytometry staining using mouse Anti-Human IgG Fab fragment antibody

Flow Cytometry analysis of human peripheral blood cells labeling Human IgG Fab fragment with Anti-Human IgG Fab fragment antibody [4A11] (ab771). Surface staining of human peripheral blood cells with ab771. An APC-conjugated goat anti-mouse IgG was used as the secondary antibody.

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