abcam

ab34444

FITC Anti-CD11b antibody [2F4/11]

Anti-CD11b antibody [2F4/11] conjugated to FITC - suitable for flow cytometry, and reacts with pig samples. Clone [2F4/11] is a mouse monoclonal antibody cited in 11 publications.

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

Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	FITC
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	pH: 7.4 Preservative: 0.09% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing CD11b protein. The exact immunogen used to generate this antibody is proprietary information.
Clone number	2F4/11
Purification technique	Affinity purification Protein G
Specificity	ab34444 is expressed on granulocytes, monocytes and alveolar macrophages, but not on lymphocytes, eythrocytes or platelets.
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Pig
Dilution info	-
Notes	Neat - 1/10. Use 10ul of the suggested working dilution to 1x10^6 cells in 100ul. ab91356 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target data

See full target information CD11b

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, Store in the dark

Notes

ab34444 is reported to block phagocytosis of complement-opsonised zymosan particles by polymononuclear granulocytes and alveolar macrophages.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	CD11b also known as Integrin alpha M is a protein with a molecular weight of approximately 170 kDa. This protein functions mechanically as an important adhesion molecule. It forms a complex with CD18 to become part of leukocyte-specific beta2 integrins specifically the Mac-1 (CR3) receptor. CD11b is largely

	expressed on the surface of various myeloid cells including monocytes macrophages granulocytes and a subset of natural killer cells. Researchers often utilize anti-CD11b antibodies and other markers such as APC or CD11b IHC to study its expression in different contexts.
Biological function summary	CD11b plays a critical role in various immune responses by mediating phagocytosis chemotaxis and cell migration. It is essential for proper leukocyte adherence to endothelial cells and for the engulfment of pathogens or apoptotic cells. CD11b as part of the Mac-1 complex contributes to the immune surveillance and inflammatory processes. This complex interacts with diverse ligands like ICAM-1 fibrinogen and complement component iC3b facilitating an immunological response.
Pathways	CD11b is instrumental within the integrin signaling pathway and the Leukocyte Transendothelial Migration pathway. Its interaction with ICAM-1 is central to the leukocyte adhesion cascade influencing the movement of immune cells across endothelial barriers. CD11b also associates with proteins such as Src family kinases and PI3K which activate downstream signaling responsible for the reorganization of the cytoskeleton and cell movement during immune responses.
Associated diseases and disorders	CD11b is linked to inflammatory conditions like rheumatoid arthritis and systemic lupus erythematosus. Aberrant expression or function of CD11b can result in improper immune regulation contributing to the pathogenesis of these diseases. Its interaction with complement receptor iC3b plays a part in inflammation and tissue damage observed in these conditions. Consequently CD11b represents a potential target for therapeutic intervention in diseases where dysregulated immune activity is a feature.

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

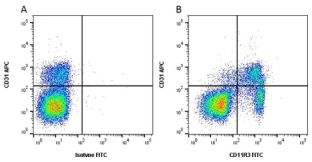
We do not recommend this combination. It is not covered by our product promise.

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.

3 product images



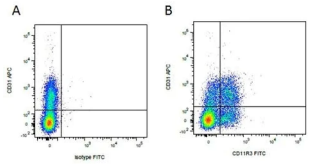
Flow Cytometry - FITC Anti-CD11b antibody [2F4/11] (ab34444)

CD11b Flow Cytometry staining of Red cell lysed porcine blood using mouse Anti-CD11b antibody

Flow cytometry staining of red cell lysed porcine blood with ab34444.
Figure A. APC conjugated mouse anti porcine CD31 and FITC conjugated mouse IgG1 isotype control. Figure B. APC conjugated mouse anti porcine CD31 and FITC conjugated mouse anti porcine CD11R3 (ab34444).

All experiments performed on red cell lysed porcine blood gated on lymphocytes (10ul neat to label $1x10^6$ cells in 100ul).

Data acquired on the ZE5 Cell Analyzer.

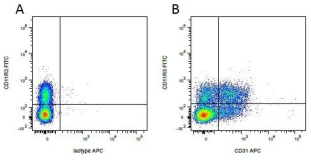


Flow Cytometry - FITC Anti-CD11b antibody [2F4/11] (ab34444)

CD11b Flow Cytometry staining of Red cell lysed porcine blood using mouse Anti-CD11b antibody

Flow cytometry staining of red cell lysed porcine blood with ab34444.
Figure A. APC conjugated mouse anti porcine CD31 and FITC conjugated mouse IgG1 isotype control. Figure B. APC conjugated mouse anti porcine CD31 and FITC conjugated mouse anti porcine CD11R3 (ab34444).

All experiments performed on red cell lysed porcine blood gated on mononuclear cells (10ul neat to label $1x10^6$ cells in 100ul) .



Flow Cytometry - FITC Anti-CD11b antibody [2F4/11] (ab34444)

CD11b Flow Cytometry staining of Red cell lysed porcine blood using mouse Anti-CD11b antibody

Flow cytometry staining of red cell lysed porcine blood with ab34444.
Figure A. FITC conjugated mouse anti porcine CD11R3 (ab34444) and APC conjugated mouse IgG1 isotype control. Figure B. FITC conjugated mouse anti porcine CD11R3 (ab34444) and APC conjugated mouse anti porcine CD31.

All experiments performed on red cell lysed porcine blood gated on mononuclear cells (10ul neat to label $1x10^6$ cells in 100ul).

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