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Product datasheet for AM26635FC-N

Itgax Rat Monoclonal Antibody [Clone ID: 223H7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	223H7
Applications:	FC
Recommended Dilution:	**Flow Cytometry:** 10 µg/ml (final concentration). For details see ***Protocol*** below.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Murine dendritic cells isolated from C57BL/6 mice
Specificity:	This antibody reacts with Mouse CD11c antigen on Flow Cytometry. Other species not tested.
Formulation:	PBS Label: FITC State: Liquid purified Ig fraction Stabilizer: 1% BSA Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Protein G Agarose Chromatography
Conjugation:	FITC
Storage:	Store undiluted at 2-8°C. **DO NOT FREEZE!**
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin alpha X
Database Link:	Entrez Gene 16411 Mouse Q9QXH4

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Background: The CD11c (α X integrin; ~150 kDa) glycoprotein non-covalently associates with CD18 (β 2 integrin; ~95 kDa) to form the heterodimeric complement receptor type 4 (CR4), which is involved in monocyte/granulocyte adhesion during inflammatory responses. The CD11c/CD18 receptor binds to CD54, iC3b and fibrinogen and plays a role in leukocyte adhesive interactions. CD11c/CD18 is also implicated in B cell proliferation and mediates B cell binding to fibrinogen. CD11c is commonly used as a marker for dendritic cells, but it is also expressed on macrophages, monocytes, granulocytes, NK cells, activated T and B lymphocytes and microglia.

Synonyms: ITGAX, Integrin alpha-X, Leu M5

Note: This product was originally produced by MBL International.

Protocol: **Flow Cytometric analysis for floating cells**

We usually use Fisher tubes or equivalents as reaction tubes for all step described below.

1) Wash the cells 3 times with washing buffer [PBS containing 2% fetal calf serum (FCS) and 0.1% NaN3].

2) Resuspend the cells with washing buffer ($5x10^6$ cells/mL).

3) Add 50 µL of the cell suspension into each tube, and centrifuge at 500 x g for 1 minute at room temperature (20~25°C). Remove supernatant by careful aspiration.

4) Add 20 µL of normal goat serum containing 1 mg/mL normal human IgG and 0.1% NaN3 to the cell pellet after tapping. Mix well and incubate for 5 minutes at room temperature.

5) Add 40 µL of the FITC labeled mouse CD11c monoclonal antibody (223H7) (10 µ g/mL) diluted in the washing buffer. Mix well and incubate for 30 minutes at room temperature.

6) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration.

7) Add 30 µL of 1:50 Biotin labeled anti-mouse I-A^b ($A^a\beta^b$) diluted with the washing buffer. Mix well and incubate for 15 minutes at room temperature.

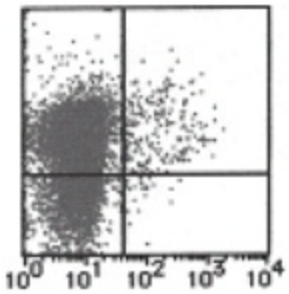
8) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration.

9) Add 30 µL of 1:50 PE labeled streptavidin diluted with the washing buffer. Mix well and incubate for 15 minutes at room temperature.

10) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration.

11) Resuspend the cells with 500 µ L of the washing buffer and analyze by a flow cytometer. (Positive control for Flow cytometry; mouse splenocyte)

Product images:



Flow cytometric analysis of Mouse CD11c expression on Mouse splenocytes. The staining intensity of AM26635FC-N is shown in the horizontal axis with Mouse I-A b staining on the vertical axis.