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Datasheet for ABIN301988

anti-CD11c antibody (APC)

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Overview

Quantity:	100 tests
Target:	CD11c (ITGAX)
Reactivity:	Human, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD11c antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Dendritic cells of synovial fluid
Clone:	BU15
Isotype:	IgG1
Specificity:	The antibody BU15 reacts with an extracellular epitope of CD11c (alphaX, p150), a 150 kDa integrin expressed mainly on dendritic cells and tissue macrophages.
Cross-Reactivity (Details):	Human, Monkey
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD11c (ITGAX)
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Target Details

Alternative Name:	CD11c (ITGAX Products)
Background:	Integrin subunit alpha X,CD11c (p150, alphaX integrin subunit) forms complex with CD18 (beta2 integrin subunit) and is expressed mainly on tissue macrophages and dendritic cells. CD11c binds to complement fragment iC3b, fibrinogen, VCAM-1 and ICAM-2 or e.g. CD90. Like other beta2 integrins, CD11c/CD18 plays roles in cell migration and phagocytosis. Moreover, interaction of CD11c/CD18 with plasminogen regulates plasmin activities, and interaction with heparin counteracts binding of iC3b.,Integrin alpha X, ITGAX, SLEB6
Gene ID:	3687
UniProt:	P20702
Pathways:	Complement System , Activated T Cell Proliferation , Integrin Complex

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:

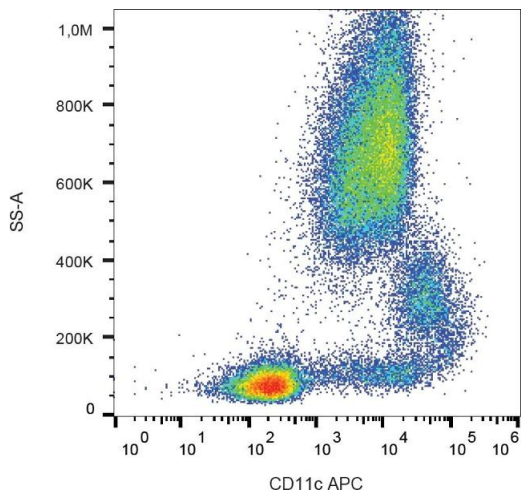
Angel, Lala, Chen, Edgar, Ostrovsky, Dunbar: "CD14+ antigen-presenting cells in human dermis are less mature than their CD1a+ counterparts." in: **International immunology**, Vol. 19, Issue 11, pp. 1271-9, (2007) ([PubMed](#)).

Myou, Zhu, Boetticher, Qin, Myo, Meliton, Lambertino, Munoz, Hamann, Leff: "Regulation of adhesion of AML14.3D10 cells by surface clustering of beta2-integrin caused by ERK-independent activation of cPLA2." in: **Immunology**, Vol. 107, Issue 1, pp. 77-85, (2002) ([PubMed](#)).

Van der Vieren, Le Trong, Wood, Moore, St John, Staunton, Gallatin: "A novel leukointegrin, alpha d beta 2, binds preferentially to ICAM-3." in: **Immunity**, Vol. 3, Issue 6, pp. 683-90, (1996) ([PubMed](#)).

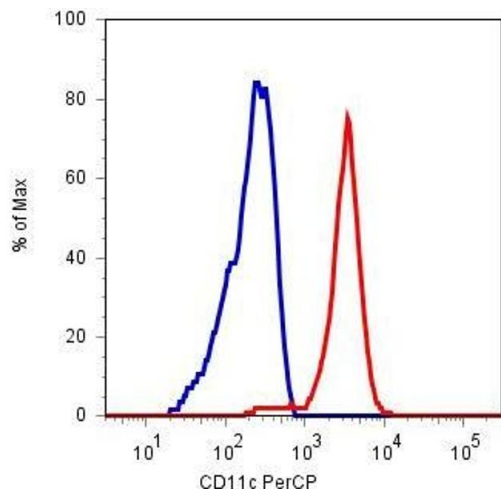
Hogg, Takacs, Palmer, Selvendran, Allen: "The p150,95 molecule is a marker of human mononuclear phagocytes: comparison with expression of class II molecules." in: **European journal of immunology**, Vol. 16, Issue 3, pp. 240-8, (1986) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood cells with anti-CD11c (BU15) APC.



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-CD11c (BU15) PerCP (monocyte gate).