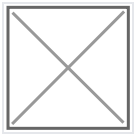
CD11c Antibody – Mouse

PRODUCT OVERVIEW

Product Name	CD11c, Antibody
Full Product Name	Anti-Hu CD11c APC
Product Gene Name	anti-CD11c antibody
Product Synonym Gene Name	ITGAX
Product Synonym Names	integrin subunit alpha X; Integrin alpha X; ITGAX; SLEB6
Isotype	IgG1
Clone Number	BU15
Host	Mouse
Species Reactivity	Human, Monkey
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Purity/Purification	The purified antibody is conjugated with allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
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.
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light.
Matching Pairs	Unconjugated Antibody: CD11c Clone #BU15 (MBS1800436) APC Conjugated Antibody: CD11c Clone #BU15 (MBS1800437)
OMIM	151510
3D Structure	ModBase 3D Structure for P20702
Immunogen	Dendritic cells of synovial fluid
Conjugation	APC
Applications Tested/Suitable for anti-CD11c antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-CD11c antibody	FC/FACS: QC tested
Related Product Information for anti-CD11c antibody	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.
Other Notes	Small volumes of anti-CD11c antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD11c purchase	MBS1800437 is an antibody targeting CD11c. Also known as Anti-Hu CD11c APC. Reactive in Human, Monkey. Host: Mouse.



Flow Cytometry (FC/FACS) of anti-CD11c antibody
Flow cytometry analysis (surface staining) of human peripheral blood cells with anti-CD11c (BU15) APC.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD11c. It may not necessarily be applicable to this product.

NCBI GI #	34452173
NCBI GeneID	3687
NCBI Accession #	NP_000878.2
UniProt Primary Accession #	P20702
UniProt Related Accession #	P20702
GenBank Nucleotide #	NP_000878.2
NCBI Official Full Name	integrin alpha-X isoform 2
NCBI Official Synonym Full Names	integrin subunit alpha X
NCBI Official Symbol	ITGAX
NCBI Official Synonym Symbols	CD11C; SLEB6
UniProt Protein Name	Integrin alpha-X
UniProt Synonym Protein Names	CD11 antigen-like family member C; Leu M5; Leukocyte adhesion glycoprotein p150,95 alpha chain; Leukocyte adhesion receptor p150,95
Protein Family	Integrin
UniProt Gene Name	ITGAX
UniProt Synonym Gene Names	CD11C
UniProt Entry Name	ITAX_HUMAN
NCBI Protein Information	integrin alpha-X
NCBI Summary for CD11c	This gene encodes the integrin alpha X chain protein. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This protein combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as inactivated-C3b (iC3b) receptor 4 (CR4). The alpha X beta 2 complex seems to overlap the properties of the alpha M beta 2 integrin in the adherence of neutrophils and monocytes to stimulated endothelium cells, and in the phagocytosis of complement coated particles. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]
Research Articles on CD11c	**1.** ITGAX stimulates angiogenesis of ovarian cancer through the PI3K/Akt signaling-mediated VEGF-A/VEGFR2 expression in endothelial cells, suggesting that ITGAX may be a novel target in the treatment of cancers, especially those with high angiogenic capacity.
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