

Mouse CD18 Monoclonal Antibody | anti-CD18 antibody

Anti-CD18 [1B4], Rabbit IgG, Kappa

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72059	Mouse	Human, Rhesus Monkey	Immunofluorescence, Flow Cytometry, Functional Assay, ELISA, immunoassay, Radioimmunoassay, Immunoprecipitation

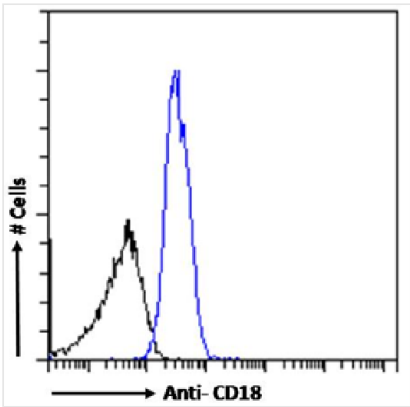
PRODUCT SYNONYMS

CD18; Monoclonal Antibody; Anti-CD18 [1B4]; Rabbit IgG; Kappa; Integrin beta-2; Cell surface adhesion glycoproteins LFA-1/CR3/p150.95 subunit beta; Complement receptor C3 subunit beta; ITGB2; MFI7; IB4; m1B4; mIB4; anti-CD18 antibody

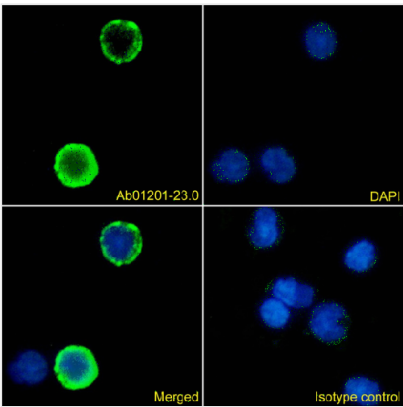
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Rhesus Monkey
Clonality	Monoclonal
Isotype	Rabbit IgG, Kappa
Clone Number	1B4
Specificity	Specific to the beta chain of the leukocyte integrin beta-2 family. This is found in LFA-1, Mac-1 and p150.95 among others. Binds an epitope distinct from the C3bi binding site. Has been shown to recognise both the human and Rhesus monkey antigen.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD18 antibody	IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA, RIA (Radioimmunoassay), IP (Immunoprecipitation)
Antibody Type	Recombinant Antibody
Immunogen	Blood was obtained from 4 healthy donors and the mononuclear cells harvested and grown. A BALB/c mouse was injected with 10^6 monocytes three times at monthly intervals, and four times with 5×10^6 monocytes on each of the four days before fusion. The spleen cells were then fused to P3U1 myeloma cells to generate hybridomas and RIA was used to identify lines of interest.
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



FCM/FACS (Flow Cytometry)
Flow-cytometry using the anti-CD18 antibody 1B4. Human peripheral blood leukocytes were stained with anti-Fluorescein IgG antibody (4-4-20; isotype control, black line) or the rabbit IgG1 version of 1B4 (blue line) at a dilution of 1:100 for 1h at RT. After washing, bound antibody was detected using a goat anti-mouse IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



IF (Immunofluorescence)
Immunofluorescence staining of human peripheral blood monocytes using anti-CD18 antibody 1B4. Immunofluorescence analysis of paraformaldehyde fixed human peripheral blood monocytes immobilized on Shi-fix cover-slips and stained with the chimeric rabbit IgG version of 1B4 at 10ug/ml followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining in a subset of cells. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom, DAPI, merged channels and an isotype control. The isotype control was stained with anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CD18 antibody	Describes the generation of this IB4 and others, analysis of their binding by competitive binding experiments to identify different/common epitopes, immunoprecipitation and ELISAs to confirm a common antigen. Recombinant monoclonal antibody to CD18. Manufactured using our Recombinant Platform with variable regions (i.e. specificity) from the hybridoma 1B4.
Product Categories/Family for anti-CD18 antibody	Therapeutics; Anti-inflammatory
References	Wright et al; Proc Natl Acad Sci USA. 1983 Sep; 80(18): 5699-5703. OriginPubPMID: 8095956

NCBI AND UNIPROT INFORMATION

NCBI GI #	89191865
NCBI GeneID	3689
NCBI Accession #	NP_000202.2
NCBI GenBank Nucleotide #	NM_000211.3
UniProt Accession #	P05107; Q16418; Q53HS5; Q9UD72; B3KTS8; D3DSM1
Molecular Weight	84,782 Da
NCBI Official Full Name	integrin beta-2
NCBI Official Synonym Full Names	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)
NCBI Official Symbol	ITGB2
NCBI Official Synonym Symbols	LAD; CD18; MF17; MFI7; LCAMB; LFA-1; MAC-1
NCBI Protein Information	integrin beta-2; integrin beta chain, beta 2; complement receptor C3 beta-subunit; complement receptor C3 subunit beta; leukocyte cell adhesion molecule CD18; leukocyte-associated antigens CD18/11A, CD18/11B, CD18/11C; cell surface adhesion glycoproteins
UniProt Protein Name	Integrin beta-2
UniProt Gene Name	ITGB2

UniProt Synonym Gene Names	CD18; MFI7
UniProt Entry Name	ITB2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd18-antibody-clone-1b4-immunofluorescence-flow-cytometry-radioimmunoassay-immunoprecipitation-elisa/72059>