

Rat CD18 Monoclonal Antibody | anti-CD18 antibody

RAT ANTI HUMAN CD18

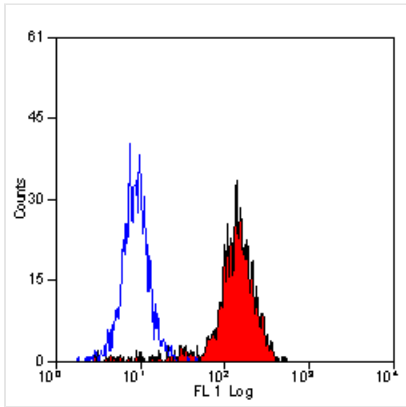
CATALOG # AAA11987	HOST Rat	APPLICATIONS Immunohistochemistry, Flow Cytometry, Functional Assay, Immunoprecipitation
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PRODUCT SYNONYMS

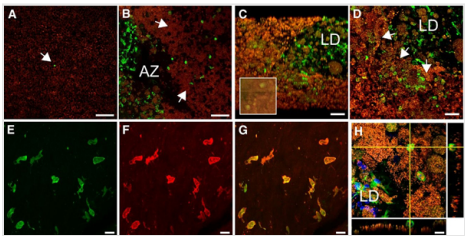
CD18; Monoclonal Antibody; RAT ANTI HUMAN CD18; anti-CD18 antibody

PRODUCT SPECIFICATIONS

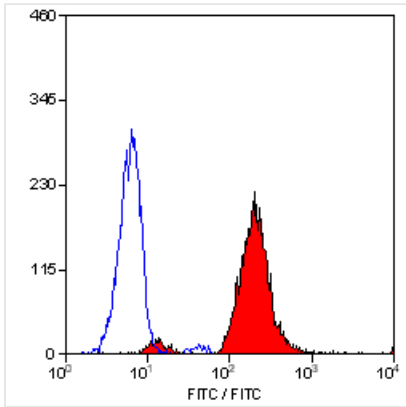
Host	Rat
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	YFC118.3
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1 mg/ml (varies by lot)
Sequence Length	769
Applicable Applications for anti-CD18 antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), IP (Immunoprecipitation)
Application Notes	Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul. Immunohistology - Frozen: Minimum Dilution: 1/1000; Maximum Dilution: 1/5000; Application Note: The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. We recommends the use of acetone fixation for frozen sections. Flow Cytometry: Minimum Dilution: 1/50; Maximum Dilution: 1/100
Perservative Stabilisers	0.09% Sodium Azide
Immunogen	Human neutrophils Histology Positive Control Tissue
Target Species	Human
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.



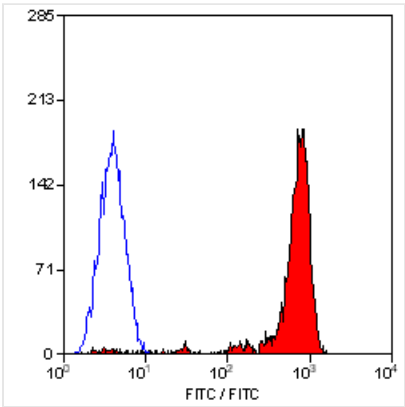
Application Data
Staining of human peripheral blood granulocytes with CD18: Alexa Fluor 647



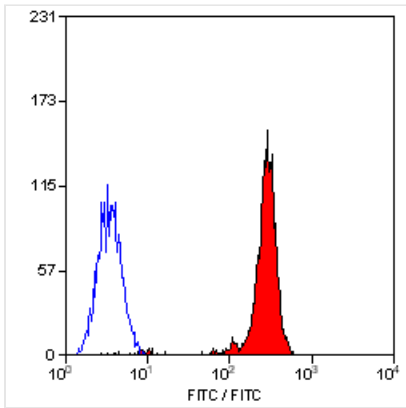
Application Data
Published customer image: Mouse anti Human CD18 antibody, clone YFC118.3 used for immunofluorescence studies using formalin fixed paraffin embedded material following antigen retrieval with citrate buffer at pH6.0Image caption:Subretinal MPs accumulate on the retinal pigment epithelium in AMDA -D Confocal microscopy of IBA-1 (green staining) immunohistochemistry of RPE flatmounts (RPE autofluorescence visible as orange due to its autofluorescence in the red and green channel) from a healthy donor (A), a geographic atrophy lesion (B), and large drusen (C and D). (A, B, D): orthogonal Z-stack projection; (C): oblique Z-stack projection and dissecting microscope appearance of postmortem large drusen after removal of the overlying retina (inset). E -G Double-labeling on the subretinal side of the retina (to avoid masking by RPE autofluorescence) of IBA-1+ (E, green fluorescence) and CD18 (F, red fluorescence; G, merge). H. Orthogonal and lateral Z-stack of a subretinal IBA-1+ (green fluorescence) MPs adjacent to the RPE (orange autofluorescence) in the vicinity of a large drusen.Data information: Controls omitting the primary antibody showed no staining apart from the autofluorescence. AZ: atrophic zone; LD: large drusen. Scale bar: 50 um (A -D); 10 um (E -H).From: Levy O, Calippe B, Lavalette S, Hu SJ, Raoul W, Dominguez E, Housset M, Paques M, Sahel JA, Bemelmans AP, Combadiere C, Guillonneau X, Sennlaub F. Apolipoprotein E promotes subretinal mononuclear phagocyte survival and chronic inflammation in age-related macular degeneration. EMBO Mol Med. 2015 Jan 20. pii: e201404524.



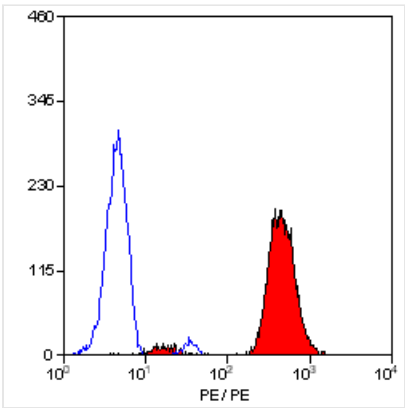
Application Data
Staining of human peripheral blood granulocytes with Rat anti Human CD18:FITC



Application Data
Staining of human peripheral blood lymphocytes with Rat anti Human CD18



Application Data
Staining of human peripheral blood lymphocytes with Rat anti Human CD18:Biotin



Application Data
Staining of human peripheral blood granulocytes with Rat anti Human CD18:RPE

ADDITIONAL INFORMATION

Related Product Information for anti-CD18 antibody	Rat anti Human CD18 antibody, clone YFC118.3 was clustered at the Fourth International Workshop on Leucocyte Differentiation Antigen (code number N221) as recognising the CD18 antigen. The CD18 antigen is an integral membrane glycoprotein of 95kD molecular weight - known as the beta chain, of the LFA-1 complex. The CD18 antigen is non-covalently linked to CD11a, b, c molecules. The main cellular reactivity of Rat anti Human CD18 antibody, clone YFC118.3 is a strong reactivity with Leucocytes (platelets negative). The CD18 molecule is the receptor for ICAM-1 and is thus important for cell adhesion.
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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; cell surface adhesion glycoprotein (LFA-1/CR3/P150,959 beta subunit precursor); complement receptor C3 beta-subunit; integrin beta chain, beta 2; leukocyte cell adhesion molecule CD18; leukocyte-associated antigens CD18/11A, CD18/11B, CD18/11C
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-yfc118-3-immunohistochemistry-flow-cytometry-immunoprecipitation-elisa/11987>