

Rabbit Anti-CD18/AP Conjugated antibody

SL0503R-AP

Product Name	Anti-CD18/AP
Chinese Name	碱性磷酸酶 (AP) 标记的整合素 β 2/Integrin β 2 抗体
Alias	Integrin beta 2; 95 subunit beta; CD 18; Cell surface adhesion glycoprotein LFA 1/CR3/P150,959 beta subunit precursor); Cell surface adhesion glycoproteins LFA 1/CR3/p150,95 subunit beta; Cell surface adhesion glycoproteins LFA-1/CR3/p150; Complement receptor C3 beta subunit; Complement receptor C3 subunit beta; Integrin beta chain beta 2; Integrin beta-2; Integrin, beta 2 (complement component 3 receptor 3 and 4 subunit); ITB2_HUMAN; ITGB2; LAD; LCAMB; Leukocyte associated antigens CD18/11A, CD18/11B, CD18/11C; Leukocyte cell adhesion molecule CD18; LFA 1; LFA1; Lymphocyte function associated antigen 1; MAC 1; MAC1; MF17; MF17; OTTHUMP00000115278; OTTHUMP00000115279; OTTHUMP00000115280; OTTHUMP00000115281; OTTHUMP00000115282.
Research Area	Tumour Cell biology Cell adhesion molecule Cell Surface Molecule
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat(predicted:Human,Mouse,Pig,Cow,Horse,Sheep) IHC-P=1:100-500,IHC-F=1:100-500,ELISA=1:500-5000
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	82kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Integrin beta 2 C-terminus
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and

for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

background:

The product of this gene belongs to the integrin beta chain family of proteins. Integrins are integral cell-surface proteins composed of an alpha chain and a beta chain. This gene encodes the integrin beta chain beta 2. A given chain may combine with multiple partners resulting in different integrins. For example, beta 2 combines with the alpha L chain to form the integrin LFA-1, and combines with the alpha M chain to form the integrin Mac-1. Integrins are known to participate in cell adhesion as well as cell-surface mediated signalling. Defects in this gene are the cause of leukocyte adhesion deficiency type I (LAD1). Two transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jul 2008].

Function:

Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. Integrins alpha-M/beta-2 and alpha-X/beta-2 are receptors for the iC3b fragment of the third complement component and for fibrinogen. Integrin alpha-X/beta-2 recognizes the sequence G-P-R in fibrinogen alpha-chain. Integrin alpha-M/beta-2 recognizes P1 and P2 peptides of fibrinogen gamma chain. Integrin alpha-M/beta-2 is also a receptor for factor X. Integrin alpha-D/beta-2 is a receptor for ICAM3 and VCAM1. Triggers neutrophil transmigration during lung injury through PTK2B/PYK2-mediated activation.

Product Detail

Subunit:

Heterodimer of an alpha and a beta subunit. Beta-2 associates with either alpha-L, alpha-M, alpha-X or alpha-D. Interacts with FGR. Interacts with COPS5 and RANBP9.

Subcellular Location:

Membrane; Single-pass type I membrane protein.

Post-translational modifications:

Both Ser-745 and Ser-756 become phosphorylated when T-cells are exposed to phorbol esters. Phosphorylation on Thr-758 (but not on Ser-756) allows interaction with 14-3-3 proteins.

DISEASE:

Leukocyte adhesion deficiency 1 (LAD1) [MIM:116920]: LAD1 patients have recurrent bacterial infections and their leukocytes are deficient in a wide range of adhesion-dependent functions. Note=The disease is caused by mutations affecting the gene represented in this entry.

Similarity:

Belongs to the integrin beta chain family.
Contains 1 VWFA domain.

Database links:

[Entrez Gene: 3689](#) Human

[Entrez Gene: 16414](#) Mouse

[Entrez Gene: 309684](#) Rat

[Omim: 600065](#) Human

[SwissProt: P05107](#) Human

[SwissProt: P11835](#) Mouse

[Unigene: 375957](#) Human

[Unigene: 1137](#) Mouse

[Unigene: 42962](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

LFA-1 主要与除红细胞、血小板之外的人外周血各类白细胞反应，与骨髓、胸腺、扁桃体细胞、某些 Tumour 细胞反应和表达。又称白细胞黏附蛋白。