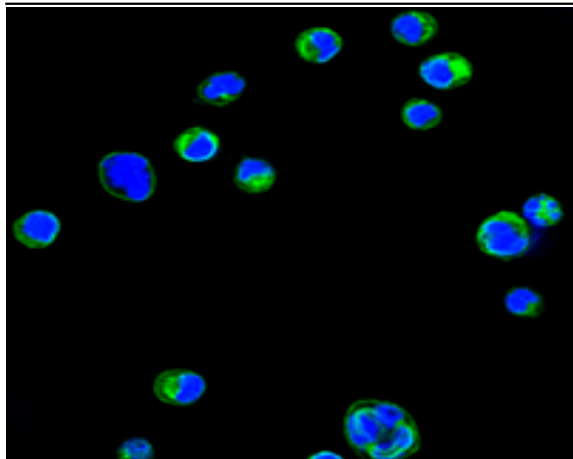


## CD18 Monoclonal Antibody

|                              |   |
|------------------------------|---|
| <b>Catalog No :</b>          | YM0107  |
| <b>Reactivity :</b>          | Human;Mouse   |
| <b>Applications :</b>        | IF;ELISA  |
| <b>Target :</b>              | Integrin $\beta$ 2  |
| <b>Fields :</b>              | >>Rap1 signaling pathway;>>Phagosome;>>Hippo signaling pathway;>>Cell adhesion molecules;>>Complement and coagulation cascades;>>Neutrophil extracellular trap formation;>>Natural killer cell mediated cytotoxicity;>>Leukocyte transendothelial migration;>>Regulation of actin cytoskeleton;>>Pertussis;>>Legionellosis;>>Leishmaniasis;>>Malaria;>>Amoebiasis;>>Staphylococcus aureus infection;>>Tuberculosis;>>Human T-cell leukemia virus 1 infection;>>Rheumatoid arthritis;>>Viral myocarditis |
| <b>Gene Name :</b>           | ITGB2   |
| <b>Protein Name :</b>        | Integrin beta-2   |
| <b>Human Gene Id :</b>       | 3689  |
| <b>Human Swiss Prot No :</b> | P05107  |
| <b>Mouse Gene Id :</b>       | 16414   |
| <b>Mouse Swiss Prot No :</b> | P11835  |
| <b>Immunogen :</b>           | Purified recombinant fragment of CD18 expressed in E. Coli.   |
| <b>Specificity :</b>         | CD18 Monoclonal Antibody detects endogenous levels of CD18 protein.   |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source :</b>              | Monoclonal, Mouse   |
| <b>Dilution :</b>            | IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.  |

|                               |   |
|-------------------------------|---|
| <b>Purification :</b>         | Affinity purification   |
| <b>Storage Stability :</b>    | -15°C to -25°C/1 year(Do not lower than -25°C)  |
| <b>Cell Pathway :</b>         | Cell adhesion molecules (CAMs);Natural killer cell mediated cytotoxicity;Leukocyte transendothelial migration;Regulates Actin and Cytoskeleton;Viral myocarditis;   |
| <b>P References :</b>         | <ol style="list-style-type: none"> <li>1. Microcirculation. 2008 Aug;15(6):555-67.</li> <li>2. Mol Immunol. 2008 Feb;45(3):709-18.</li> <li>3. J Biol Chem. 2007 Aug 17;282(33):24310-9.</li> </ol>   |
| <b>Background :</b>           | This gene encodes an integrin beta chain, which combines with multiple different alpha chains to form different integrin heterodimers. Integrins are integral cell-surface proteins that participate in cell adhesion as well as cell-surface mediated signalling. The encoded protein plays an important role in immune response and defects in this gene cause leukocyte adhesion deficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014],   |
| <b>Function :</b>             | <p>disease:Defects in ITGB2 are the cause of leukocyte adhesion deficiency type I (LAD1) [MIM:116920]. LAD1 patients have recurrent bacterial infections and their leukocytes are deficient in a wide range of adhesion-dependent functions.,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.,online information:ITGB2 mutation db,PTM:Both Ser-745 and Ser-756 become phosphorylated when T-cells are exposed to phorbol esters. Phosphorylation on Thr-758 (but not on S</p> |
| <b>Subcellular Location :</b> | Cell membrane ; Single-pass type I membrane protein . Membrane raft ; Single-pass type I membrane protein .   |
| <b>Expression :</b>           | Leukocytes (PubMed:23775590). Expressed in neutrophils (at protein level) (PubMed:21193407, PubMed:28807980).   |

## Products Images



Confocal immunofluorescence analysis of HL60 cells using CD18 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye.