

# CD18 Antibody

Rabbit mAb

Catalog # AP91240

## Product Information

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<b>Application</b>	WB, IP
<b>Primary Accession</b>	<a href="#">P05107</a>
<b>Reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	Integrin beta-2; Cell surface adhesion glycoproteins LFA-1/CR3/p150, 95 subunit bet; Complement receptor C3 subunit beta; CD18; ITGB2; CD18; MFI7;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	84791

## Additional Information

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<b>Dilution</b>	WB 1:500~1:2000 IP 1:50
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human CD18
<b>Description</b>	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.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

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<b>Name</b>	ITGB2 ( <a href="#">HGNC:6155</a> )
<b>Synonyms</b>	CD18, MFI7
<b>Function</b>	Integrin ITGAL:ITGB2 is a receptor for ICAM1, ICAM2 and ICAM3 (PubMed: <a href="#">1676048</a> , PubMed: <a href="#">23775590</a> , PubMed: <a href="#">38195629</a> ). Integrin ITGAL:ITGB2 is also a receptor for the secreted form of ubiquitin-like protein ISG15; the interaction is mediated by ITGAL (PubMed: <a href="#">29100055</a> ). Integrins ITGAM:ITGB2 and ITGAX:ITGB2 are receptors for the iC3b fragment of the third complement component and for fibrinogen. Integrin ITGAX:ITGB2 recognizes the sequence G-P-R in fibrinogen alpha-chain. Integrin ITGAM:ITGB2 recognizes P1 and P2 peptides of fibrinogen gamma chain. Integrin ITGAM:ITGB2 is also a receptor for factor X. Integrin ITGAD:ITGB2 is a receptor for ICAM3 and VCAM1 (PubMed: <a href="#">10438935</a> , PubMed: <a href="#">8777714</a> , PubMed: <a href="#">9841932</a> ). Contributes to natural killer cell cytotoxicity (PubMed: <a href="#">15356110</a> ). Involved in leukocyte adhesion and transmigration of

leukocytes including T-cells and neutrophils (PubMed:[11812992](#), PubMed:[28807980](#)). Triggers neutrophil transmigration during lung injury through PTK2B/PYK2-mediated activation (PubMed:[18587400](#)). Integrin ITGAL:ITGB2 in association with ICAM3, contributes to apoptotic neutrophil phagocytosis by macrophages (PubMed:[23775590](#)). In association with alpha subunit ITGAM/CD11b, required for CD177-PRTN3-mediated activation of TNF primed neutrophils (PubMed:[21193407](#)). Integrins ITGAX:ITGB2 functions as a receptor of the erythrocyte-specific adhesion molecule ICAM4 and mediates erythrophagocytosis (PubMed:[16985175](#)). Integrins ITGAX:ITGB2 functions as a receptor of the neuron-specific adhesion molecule ICAM5 ensuring neuron cell-leukocyte adhesion (PubMed:[10741396](#)). Integrin ITGAL:ITGB2 functions as a receptor of ICAM1 by acting as a platform at the immunological synapse to translate TCR engagement and density of the ITGAL ligand ICAM1 into graded adhesion (PubMed:[38195629](#)). Integrin ITGAM:ITGB2/MAC-1 complex functions as a signaling receptor for the ligand receptor ICAM1, ensuring adhesion between stimulated neutrophils and stimulated endothelial cells (PubMed:[1980124](#)). Integrin ITGAL/ITGB2 that functions as a signaling receptor of ICAM2, ensuring leukocyte cell-cell adhesion on resting cells (PubMed:[1676048](#)).

### Cellular Location

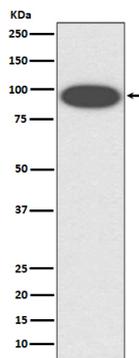
Cell membrane; Single-pass type I membrane protein. Membrane raft; Single-pass type I membrane protein

### Tissue Location

Leukocytes (PubMed:[23775590](#)). Expressed in neutrophils (at protein level) (PubMed:[21193407](#), PubMed:[28807980](#))

## Images

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Western blot analysis of CD18 expression in K562 cell lysate.

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