

## Product datasheet for **TA300794**

### CD18 (ITGB2) Rabbit Monoclonal Antibody [Clone ID: EP1286Y]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	EP1286Y
Applications:	WB
Recommended Dilution:	WB: 1:1000 - 1:2000; IP: 1:50
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to residues near the N-terminus of human LFA-?2 was used as an immunogen.
Formulation:	PBS 49%,Sodium azide 0.01%,Glycerol 50%,BSA 0.05%
Purification:	Tissue culture supernatant
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	95 kDa
Gene Name:	integrin subunit beta 2
Database Link:	<a href="#">NP_000202</a> <a href="#">Entrez Gene 3689 Human</a> <a href="#">P05107</a>



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**Background:**

In the immune system, integrins have essential roles in leukocyte trafficking and function. These include immune cell attachment to endothelial and antigen-presenting cells, cytotoxicity, and extravasation into tissues (1). Integrin adhesion receptors transduce signals that control complex cell functions which require the regulation of gene expression, such as proliferation, differentiation and survival. Their intracellular domain has no catalytic function, indicating that interaction with other transducing molecules is crucial for integrin-mediated signaling. JAB1 (Jun activation domain-binding protein 1), a coactivator of the c-Jun transcription factor, has been identified as a protein that interacts with the cytoplasmic domain of the beta2 subunit of the alphaL/beta2 integrin LFA-1 (2). Patients with leukocyte adhesion molecule (CD11/CD18, beta 2 integrins) deficiency have structural defects in the common beta subunit (CD18), which prevent heterodimer formation and normal cell surface expression of these receptors, leading to life-threatening bacterial infections (3)

**Synonyms:**

CD18; LAD; LCAMB; LFA-1; MAC-1; MF17; MFI7

**Note:**

Does not react with Mouse, Rat

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity, Regulation of actin cytoskeleton, Viral myocarditis

**Product images:**

Western blot - CD18 antibody [EP1286Y]; Anti-CD18 antibody [EP1286Y] at 1/2000 dilution + K562 cell lysate at 10 ug, Secondary goat anti-rabbit HRP labelled at 1/2000 dilution. Observed band size : 95 kDa.