

Product datasheet for TA300794

OriGene Technologies, Inc.

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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: NP 000202

Entrez Gene 3689 Human

P05107





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; MF17

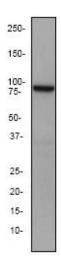
Note: Does not react with Mouse, Rat

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 antirabbit HRP labelled at 1/2000 dilution.Observed band size: 95 kDa.