

Basic Information

Product Name	Anti-CD18/ITGB2 Antibody (Clone#1A3/2A10)	
Gene Name	ITGB2	
Source	Mouse	
Clonality	Monoclonal	
Isotype	IgG1	
Species Reactivity	human	
Tested Application	IHC, WB	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human CD18 recombinant protein (Position: Q404-S769). Human CD18 shares 76% amino acid (aa) sequence identity with mouse CD18.	
Concentration	500 ug/ml	
Purification	protein G purified.	
Observed MW	90-100 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

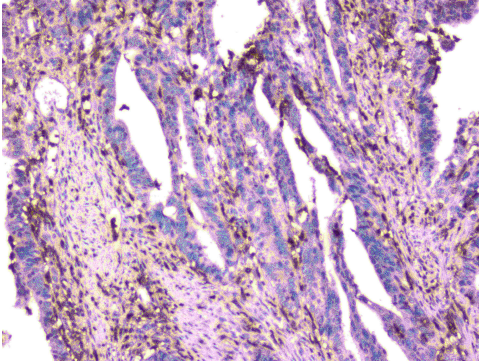
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

ITGB2(INTEGRIN, BETA-2), also known as CD18, is a protein that in humans is encoded by the ITGB2 gene. ITGB2 is an integrin protein that belongs to the class of cell membrane glycoproteins. The beta-2 integrin chain gene is designated ITGB2 and the leukocyte antigen has been designated CD18. The ITGB2 gene is mapped to 21q22.3. The expression of CD18 is increased in lymphoblastoid cells from persons with Down syndrome, consistent with the location of the gene on chromosome 21. In humans lack of ITGB2 causes Leukocyte Adhesion Deficiency, a disease defined by a lack of leukocyte extravasation from blood into tissues. Although ITGB2 is expressed on the cell surface at normal levels and is capable of function following extracellular stimulation, it could not be activated via the 'inside-out' signaling pathways.

Selected Validation Data



IHC analysis of CD18/ITGB2 using anti-CD18/ITGB2 antibody (M00458-1). CD18/ITGB2 was detected in a paraffin-embedded section of human rectal cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was incubated with mouse anti-CD18/ITGB2 Antibody (M00458-1) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.

kDa
180 -
130 -
95 -
72 -
55 -
43 -
34 -
26 -
17 -



Western blot analysis of CD18/ITGB2 using anti-CD18/ITGB2 antibody (M00458-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human placenta tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-CD18/ITGB2 antigen affinity purified monoclonal antibody (M00458-1) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CD18/ITGB2 at approximately 90-100 kDa. The expected band size for CD18/ITGB2 is at 85 kDa.

Product datasheet

**Anti-CD18/ITGB2 Antibody
(Clone#1A3/2A10)**

Catalog Number: M00458-1



antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY

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