

## Anti-Hu CD18 Purified ITGB2 Monoclonal Antibody

Catalog Number: M00458-2

### About ITGB2

CD18, integrin beta2 subunit, forms heterodimers with four types of CD11 molecule to constitute leukocyte (beta2) integrins: alphaLbeta2 (CD11a/CD18, LFA-1), alphaMbeta2 (CD11b/CD18, Mac-1, CR3), alphaXbeta2 (CD11c/CD18) and alphaDbeta2 (CD11d/CD18). In most cases, the response mediated by the integrin is a composite of the functions of its individual subunits. These integrins are essential for proper leukocyte migration, mediating intercellular contacts. Absence of CD18 leads to leukocyte adhesion deficiency-1; severe reduction of CD18 expression leads to the development of a psoriasiform skin disease. CD18 is also a target of Mannheimia (Pasteurella) haemolytica leukotoxin and is sufficient to mediate leukotoxin-mediated cytolysis.

### Overview

Product Name	Anti-Hu CD18 Purified ITGB2 Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Hu CD18 Purified ITGB2 Monoclonal Antibody (Catalog# M00458-2). Tested in Flow Cytometry, IP, WB, IHC-P, IHC-F application(s). This antibody reacts with Human.
Application	Flow Cytometry, IP, IHC-P, IHC-F, WB
Clonality	Monoclonal MEM-48
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P05107

### Technical Details

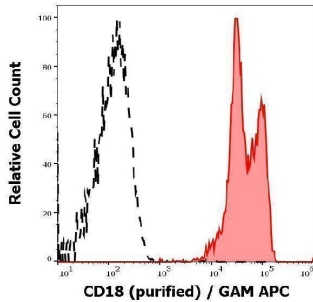
Immunogen	Leukocytes of a patient suffering from a LGL-type leukemia. The antibody MEM-48 recognizes an extracellular epitope involving residues 534-546 in cysteine-rich repeat 3 of the CD18 antigen (integrin beta2 subunit; beta2 integrin). CD18 is a 90-95 kDa type I transmembrane protein expressed on all leukocytes.
Predicted Reactive Species	Primate
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by sequential steps of physicochemical fractionation (caprylic acid precipitation and

ammonium sulfate precipitation).

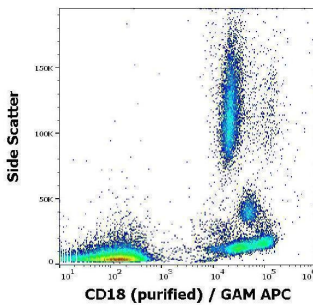
**Suggested Dilutions**

Western blotting: Recommended dilution: 1-2 ug/ml.  
Flow cytometry: Recommended dilution: 2 ug/ml.  
Immunohistochemistry (paraffin sections): Recommended dilution: 10 ug/ml; positive tissue: spleen, microglia.

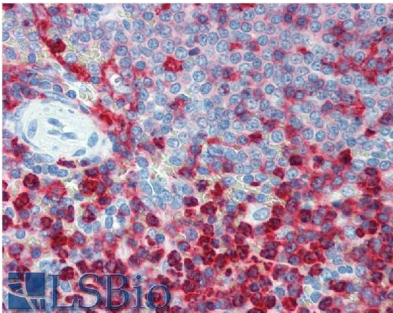
## Anti-Hu CD18 Purified ITGB2 Monoclonal Antibody (M00458-2) Images



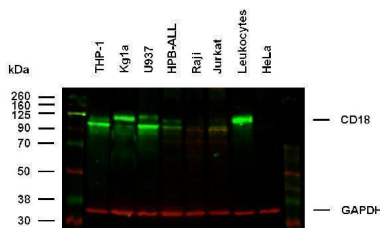
Separation of human leukocytes (red-filled) from CD18 negative blood debris (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD18 (MEM-48) purified antibody (concentration in sample 1 µg/ml, GAM APC).



Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD18 (MEM-48) purified antibody (concentration in sample 1 µg/ml, GAM APC).



Immunohistochemistry staining of human spleen (paraffin sections) using anti-CD18 (MEM-48). Commercially tested by LifeSpan BioSciences.



Anti-Hu CD18 Purified (clone MEM-48) reactivity pattern in WB application. The reactivity of MEM-48 antibody was assessed by comparing binding signals in a panel of various human cell samples. Western blotting analysis was performed on RIPA buffer extracts of THP-1, K562, U937, HPB-ALL, Raji, Jurkat, leukocytes, and HeLa cells, mixed and heated (100°C, 5 min) with reducing (2-mercaptoethanol) SDS-loading buffer. Samples were resolved using 10% SDS-PAGE gel. Nitrocellulose membrane blot was probed with mouse IgG1 monoclonal antibody MEM-48 (2 µg/ml), followed by IRDye 800CW Goat-anti-Mouse IgG (green). For multiplex fluorescent Western blot detection, mouse anti-GAPDH monoclonal antibody FF26A conjugated with DyLight 680 (0.1 µg/ml) was used as the loading control (red). CD18 was detected at ~90-100 kDa in the respective cell lines.

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### Anti-Hu CD18 Purified ITGB2 Monoclonal Antibody

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