



## CD11a Antibody [M17/4]

CATALOG NUMBER: 76-138

### Specifications

#### SPECIES REACTIVITY:

#### TESTED APPLICATIONS:

**USER NOTE:** Optimal dilutions for each application to be determined by the researcher.

**SPECIFICITY:** The M17/4 monoclonal antibody specifically reacts with mouse CD11a, a 180kDA glycoprotein.

**HOST SPECIES:** Rat

### Properties

**PURIFICATION:** The monoclonal antibody was purified utilizing affinity chromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/μg of the protein.

**PHYSICAL STATE:** liquid

**BUFFER:** Phosphate-buffered aqueous solution, pH7.2.

**CONCENTRATION:** 1 mg/mL

**STORAGE CONDITIONS:** The product should be stored undiluted at 4°C . Do not freeze.

**CLONALITY:** Monoclonal

**ISOTYPE:** Rat IgG2a, kappa

**CONJUGATE:** Unconjugated

### Additional Info

**ALTERNATE NAMES:** Cd11a, LFA-1, Ly-15, Ly-21, (p180), LFA-1A, Itgal

**OFFICIAL SYMBOL:** Itgal

**GENE ID:** 16408

### Background

**BACKGROUND:** The M17/4 monoclonal antibody specifically reacts with mouse CD11a, a 180kDA glycoprotein. CD11a is the integrin alpha L chain that forms with CD18 the heterodimer molecule Lymphocyte Function-associated Antigen-1 (LFA-1). LFA-1 is expressed on all leukocytes and is involved in intercellular adhesions. The M17/4 antibody blocks many of the LFA-1 mediated cell interaction and in vivo it prolongs allograft survival, inhibits the autoimmune response, and reduces graft versus host reactions.

**REFERENCES:** 1) Saban, M. R., Saban, R., Bjorling, D., Haak-Frendscho, M. (1997). Involvement of leukotrienes, TNF-alpha, and the LFA-1/ICAM-1 interaction in substance P-induced granulocyte infiltration. *Journal of leukocyte biology*, 61(4), 445-451.

2) Zhao, Y., Iwata, M. (1995). Cross-linking of the TCRCD3 complex with CD4, CD8 or LFA-1 induces an anti-apoptotic signal in thymocytes: the signal is canceled by FK506. *International immunology*, 7(9), 1387-1396.

3) Kootstra, C. J., Van Der Giezen, D. M., Van Krieken, J. H. J. M., De Heer, E., Bruijn, J. A. (1997). Effective treatment of experimental lupus nephritis by combined administration of anti CD11a and anti CD54 antibodies. *Clinical Experimental Immunology*, 108(2), 324-332.

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