

## anti-mouse CD18 FITC-conjugated

**FITC-** conjugated monoclonal antibody M18/2 to mouse CD18

Cat-No: **22850183**

500 µl

**Clone:** M18/2

**Specificity:** The rat monoclonal antibody reacts with mouse CD18, the 90-95 kDa integrin beta 2 glycoprotein.

**Isotype subclass:** Rat IgG2a

**Form:** The purified antibody is conjugated with Fluoresceinisothiocyanate (FITC) under optimum conditions. The reagent is adjusted for direct use. No reconstitution is necessary.

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS containing 1 % BSA and 0.09 % sodium azide (pH 7.2).

**Expiration date:** The reagent is stable until the expiry date stated on the vial label

**Storage conditions:** Store at 4 °C. Avoid prolonged exposure to light.

**Application:** Flow Cytometry

**Background:** CD18 is a 95 kD protein, also known as integrin  $\beta$ 2 subunit. It is expressed on all leukocytes. CD18, in association with integrin  $\alpha$  chain CD11a, CD11b, and CD11c forms LFA-1, Mac-1, and  $\alpha$ X $\beta$ 2, respectively, and plays an important role in leukocytes adhesion. The CD18 integrin complexes bind ICAM-1 (CD54), ICAM-2 (CD102), ICAM-3 (CD50), iC3b, and fibrinogen. The M18/2 antibody is able to block tumor cell metastasis and enhance cell adhesion.

### References:

- 1.) Sanchez-Madrid, F., P. Simon, et al. Mapping of antigenic and functional epitopes on the alpha- and beta-subunits of two related mouse glycoproteins involved in cell interactions, LFA-1 and Mac-1. J Exp Med 1983. 158(2): 586-602.
- 2.) Barlow SC, et al. 2004. Amer. J. Pathol. 165:1849. (IHC)

**Warning:** Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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