

anti-human CD49b FITC-conjugated**Cat-No.: H12438F** **1 ml****Clone:** 10G11**Specificity:**

This clone has been derived from hybridization of SP2/0 cells with spleen cells of a (BALB/c x A/J) mouse immunized with human T lymphocytes. This antibody has been clustered to CD49b in the Fourth International Workshop on Human White Cell Differentiation Antigens. The monoclonal antibody is directed against the CD49b-antigen (GP Ia or VLA-2 alpha-chain), which can form distinct complexes with either the CD29-antigen (GP IIa or VLA beta-chain), resulting in the VLA-2 (alpha-2 beta-1) complex, which is expressed on human platelets. The monoclonal antibody reacts with platelets, long-term cultivated T lymphocytes and activated T lymphocytes. In immunohistology the monoclonal antibody reacts with thymocytes, epithelial cells of a variety of tissues, peripheral nerves, fibroblasts, osteoclasts, glomerular mesangium and most non-haemopoietic adherent cell lines.

Isotype subclass: Mouse IgG1**Form:** The antibody was purified from ascites using column chromatography (ion exchange chromatography). Conjugated with fluorescein iso thiocyanate isomer 1 (FITC). Molecular F/P ratio between 5.0 – 10.0.**Physical state:** Liquid**Buffer/Additives/Preservative:** PBS containing 1 % BSA and 0.09 % sodium azide (pH 7.4).**Expiration date:** The reagent is stable until the expiry date stated on the vial label.**Storage conditions:** Store at 4 °C. Do not freeze. Avoid prolonged exposure to light.**Application:** The monoclonal antibody can be used to detect human alloantibodies (anti-Bra,b) against VLA-2 (MAIPA assay). Methods: Direct immunofluorescence staining with analysis by flowcytometry or fluorescence microscopy.**References:**

1. Knicki, T.J. et al., J. Biol. Chem., 263, 4516 (1988).
2. Giltay, J.C. et al., Blood, 73, 1235 (1989).
3. Staatz, W.D. et al., J. Cell. Biol. 108, 1917 (1989).

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.

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