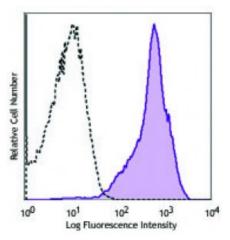
Product Data Sheet

PE/Cy7 anti-human CD11a

| Catalog # / Size: | 2106100 / 100 tests 2106095 / 25 tests |
|-----------------------|--|
| Clone: | HI111 |
| Isotype: | Mouse IgG1, к |
| Reactivity: | Human |
| Preparation: | The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody. |
| Formulation: | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA). |
| Workshop Number: | IV N231 |
| Concentration: | Lot-specific |



Human peripheral blood lymphocytes were stained CD11a (clone HI111) PE/Cy7 (filled histogram) or mouse IgG1, κ PE/Cy7 isotype control (open histogram).

Applications:

| Applications: | Flow Cytometry |
|----------------------------|--|
| Recommended Usage: | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. |
| Application Notes: | Clone HI111 epitope maps to the top region of the I domain that is close to the putative ligand-binding site surrounding the MIDAS (metal ion-dependent adhesion site). HI111 is specific for the closed confirmation of the integrin. ⁸ Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections, Western blotting2, and blocking of cell-cell interaction and inhibition the binding of ICAM-14. This clone was tested in-house and does not work on formalin fixed paraffinembedded (FFPE) tissue. The LEAF [™] purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 301214). |
| Application References: | Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press New York. Leite F, <i>et al.</i> 2002. <i>Infec. Immun.</i> 70:4336. Jiang Y, <i>et al.</i> 2005. <i>Clin. Hemorheol. Microcircul.</i> 32:261. Béchard D, <i>et al.</i> 2001. <i>J. Immunol.</i> 167:3099. Sithu SD, <i>et al.</i> 2007. <i>J. Biol. Chem.</i> doi:10.1074/jbc.M611273200. Choi EY, <i>et al.</i> 2008. <i>Blood</i> 111:3607. <u>PubMed</u> Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC) Ma Q, <i>et al.</i> 2002. <i>J. Biol. Chem.</i> 277:10638. |
| Description | CD11a is a 170-190 kD type I transmembrane glycoprotein also known as IEA 1g |

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com is absent on non-hematopoietic tissues and platelets. CD11a plays a central role in leukocyte cell-cell interactions and is important in lymphocyte costimulation. CD11a/CD18 binds to ICAM-1 (CD54), ICAM-2 (CD102), and ICAM-3 (CD50).

 Antigen
 1. Lub M, et al. 1995. Immunol. Today 16:479.

 References:
 2. Parsons J. 1996. Curr. Opin. Cell Biol. 8:146.