

## PE anti-human CD148

**Catalog # / Size:** 328708 / 100 tests

**Clone:** A3

**Isotype:** Mouse IgG1,  $\kappa$

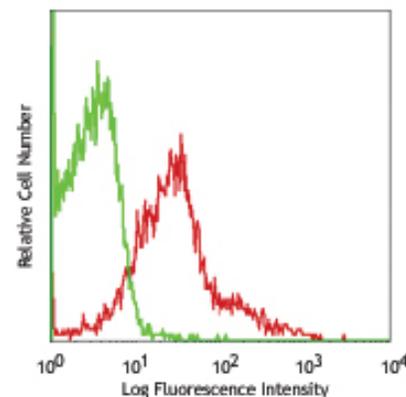
**Immunogen:** PHA-stimulated human PBMC

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with A3 PE

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Application References:**

1. Tangye SG. 1998. *J. Immunol.* 161:3249. (FC)
2. Tangye SG. 1998. *J. Immunol.* 161:3803.
3. Tangye SG. 1998. *J. Exp. Med.* 188:1691.
4. Autschbach F. 1999. *Tissue Antigens* 54:485.
5. Lin J and Weiss A. 2003. *J. Cell Biol.* 162:673.

**Description:** CD148, a receptor-like protein tyrosine phosphatase also known as human protein tyrosine phosphatase-eta (HPTP-eta) or density-enhanced protein tyrosine phosphatase-1 (DEP-1), is involved in signal transduction in leucocytes and is thought to contribute to mechanisms of cellular differentiation. In lymphoid organs, CD148 was found to be widely expressed on B and T cells, granulocytes, macrophages, certain dendritic cells as well as mature thymocytes. The cellular level of CD148 was increased after in vitro activation of peripheral blood leucocytes. CD148 as a leucocyte activation marker and may be involved in the regulation of T cell activation. Leucocytes expressing CD148 are significantly upregulated in inflamed tissues and that a subset of these cells co-expresses the activation marker CD25. In non-lymphoid tissues, CD148 was found to be present on many epithelial cell types with glandular and/or endocrine differentiation as well as on fibrocytes, melanocytes and Schwann cells. Among non-hematopoietic cells, CD148 is expressed by characteristic types of epithelial and non-epithelial cells. Downregulation of CD148 might promote dedifferentiation and autonomous growth of such cells in malignant tumors.

### Related Products:

Product	Clone	Application
Cell Staining Buffer		FC, ICC, ICFC
PE Mouse IgG1, $\kappa$ Isotype Ctrl (FC)	MOPC-21	FC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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