Technical Data Sheet

# PE Mouse Anti-Human CD109

## Product Information

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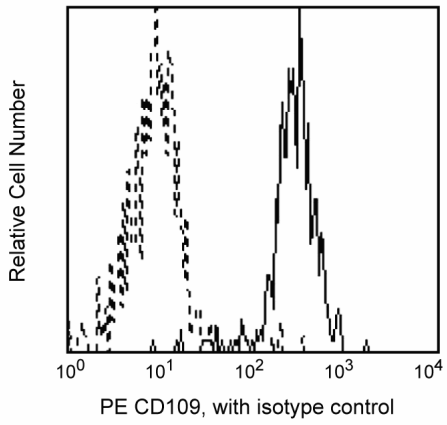
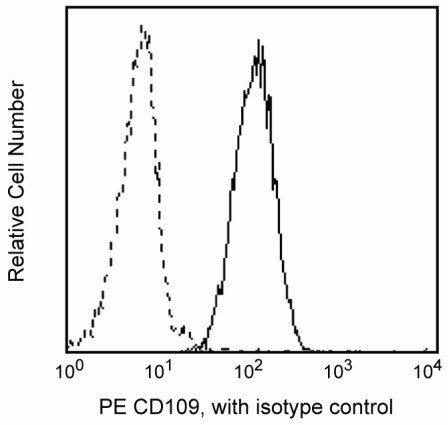
|---|---|
| **Material Number:** | **556040** |
| **Size:** | 100 tests |
| **Vol. per Test:** | 20 µl |
| **Clone:** | TEA 2/16 |
| **Isotype:** | Mouse IgG1, κ |
| **Reactivity:** | QC Testing: Human |
| **Workshop:** | VI E079 |
| **Storage Buffer:** | Aqueous buffered solution containing BSA and ≤0.09% sodium azide. |

## Description

Reacts with a 150-170 kDa glycosylphosphatidylinositol (GPI)-linked glycoprotein expressed on activated T cells, myeloid progenitor (CD34+) and mature myeloid lineage cells (monocytes, granulocytes, platelets), but not on CD34+ lymphoid progenitor cells. CD109 is also expressed on vein and artery endothelial cells. The expression of CD109 is upregulated on PHA-stimulated T cells. CD109 has been reported to be present on long-term adult bone marrow cultured cells, where it is co-expressed with CD34 and CD90. Its biological role in hematopoiesis has not been fully elucidated.




***Profile of peripheral blood monocytes analyzed on a FACScan (BDIS, San Jose, CA)***




***Profile of peripheral blood granulocytes analyzed on a FACScan (BDIS, San Jose, CA)***

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.
Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

## Application Notes

**Application**

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|---|---|
| Flow cytometry | Routinely Tested |

## Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|---|---|---|---|
| 555749 | PE Mouse IgG1, κ Isotype Control | 100 tests | MOPC-21 |

## Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10^6 cells in a 100-µl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
5. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

## References


Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook.* San Diego, CA: Academic Press; 1997. (Biology)

Kishimoto T, von dem Borne AEG, Goyert SM,et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens.* London: Garland Publishing; 1997. (Biology)

Knapp W, Dorken B, Rieber EP, et al, ed. *Leucocyte Typing IV.* New York: Oxford University Press; 1989:1-1208. (Clone-specific)

Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens.* New York: Oxford University Press; 1995. (Biology)

Smith JW, Hayward CP, Horsewood P, Warkentin TE, Denomme GA, Kelton JG. Characterization and localization of the Gova/b alloantigens to the glycosylphosphatidylinositol-anchored protein CDw109 on human platelets. *Blood.* 1995; 86(7):2807-2814. (Biology)