

Technical Data Sheet

Purified Mouse Anti-Human CD109

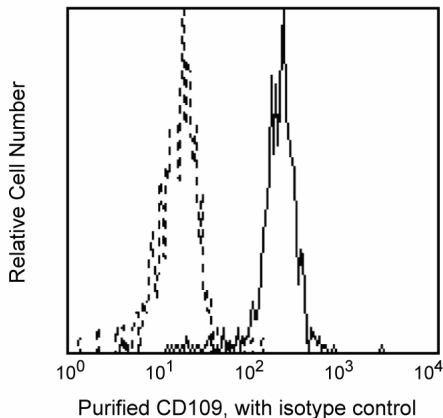
Product Information

Material Number:	556039
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	TEA 2/16
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VI E079
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

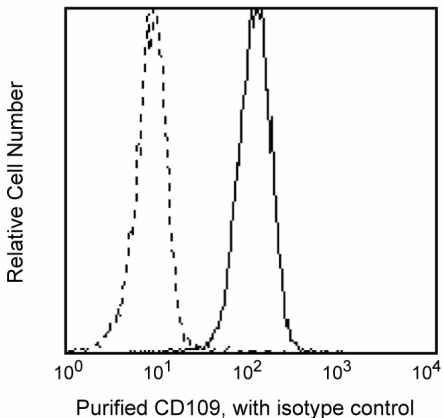
Description

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.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



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. Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Tested During Development

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Suggested Companion Products

Catalog Number	Name	Size	Clone
555746	Purified Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. 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.

References

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Kishimoto T, von dem Borne AEG, Goyert SM,et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens*. London: Garland Publishing; 1997.(Biology)
Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook*. San Diego, CA: Academic Press; 1997.(Biology)
Knapp W, Dorken B, et al, ed. *Leucocyte Typing IV*. New York: Oxford University Press; 1989.(Clone-specific)
Smith JW, Hayward CP, Horsewood P, Warkentin TE, Denomme GA, Kelton JG. Characterization and localization of the Gv_a/b alloantigens to the glycosylphosphatidylinositol-anchored protein CDw109 on human platelets. *Blood*. 1995; 86(7):2807-2814.(Biology)