

Technical Data Sheet

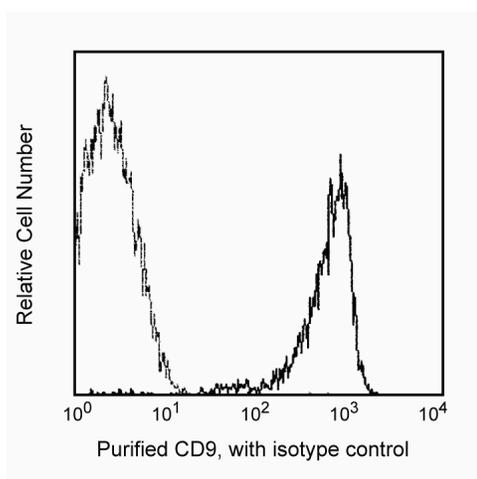
Purified Mouse Anti-Human CD9

Product Information

Material Number:	555370
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	M-L13
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	III 617
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Reacts with a 24 kDa type III transmembrane protein which is expressed on platelets, pre-B cells, monocytes, endothelia, and epithelia. CD9 belongs to a family of membrane proteins called tetraspanins which transverse the membrane four times. CD9 is weakly expressed on resting mature B cells. M-L13 induces platelet aggregation and activation. This antibody is also suitable for staining acetone-fixed, frozen tissue sections.



Profile of peripheral blood platelets analyzed by flow cytometry

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
Western blot	Tested During Development
Immunohistochemistry-frozen	Tested During Development
Immunohistochemistry-paraffin	Not Recommended

Recommended Assay Procedure:

This reagent is effective for indirect immunofluorescence staining of human cells for flow cytometric analysis. It also worked by western blotting with the human platelets lysate at the concentration of 2-4 $\mu\text{g/ml}$ (in-house data). It also can be used for immunohistochemistry on frozen tissue (spleen/thymus) sections at 2-10 $\mu\text{g/ml}$ (in-house data). **However, we do not recommend using this antibody on the formalin fixed paraffin tissue sections.**

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Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
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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Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook*. San Diego, CA: Academic Press; 1997.(Biology)
Knapp W, Dorken B, Rieber EP, et al, ed. *Leukocyte Typing IV*. New York: Oxford University Press; 1989.(Biology)
Cramer EM, Berger G, Berndt MC. Platelet alpha-granule and plasma membrane share two new components: CD9 and PECAM-1. *Blood*. 1994; 84(6):1722-1730. (Biology)
Masellis-Smith A, Shaw AR. CD9-regulated adhesion. Anti-CD9 monoclonal antibody induce pre-B cell adhesion to bone marrow fibroblasts through de novo recognition of fibronectin. *J Immunol*. 1994; 152(6):2768-2777.(Biology)