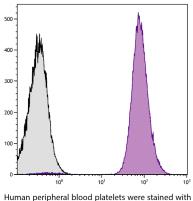
SouthernBiotech



Mouse Anti-Human CD9

Cat. No.	Format	Size
9310-01	Purified (UNLB)	0.1 mg
9310-02	Fluorescein (FITC)	100 tests
9310-02S	Fluorescein (FITC)	25 tests
9310-09	R-phycoerythrin (PE)	100 tests
9310-09S	R-phycoerythrin (PE)	25 tests
9310-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg



Human peripheral blood platelets were stained with Mouse Anti-Human CD9-FITC (SB Cat. No. 9310-02).

Overview

Clone	MM2/57
Isotype	Mouse IgG₂ьк
Immunogen	Unknown
Specificity	Human/Hamster/Canine/Feline/Monkey/Rabbit/Raccoon CD9; Mr 24 kDa
Alternate Name(s)	MRP-1, MIC3, DRAP-27, p24
Workshop	V P098

Description

CD9 is a 24 kDa member of the transmembrane 4 superfamily (TM4-SF) of cell surface receptors. It is expressed strongly on platelets, lymphoid progenitor cells, activated lymphocytes and endothelia, and, weakly, on eosinophils, granulocytes, monocytes, and macrophages. CD9 functions as an adhesion molecule where it mediates platelet aggregation and activation.

Applications

FC – Quality tested $^{1,2,4\cdot9}$ IHC-FS – Reported in literature 7,8 ICC – Reported in literature 2 IP – Reported in literature 1,2,9 WB – Reported in literature 2,3,9

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody FITC and PE conjugates	\leq 1 $\mu g/10^6$ cells 10 $\mu L/10^6$ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL	
Other Applications	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. Do not freeze!
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

- 1. Wilkinson JM, Galea-Lauri J, Sellars RA, Boniface C. Identification and tissue distribution of rabbit leucocyte antigens recognized by monoclonal antibodies. Immunology. 1992;76:625-30. (FC, IP, Rabbit Reactivity)
- Kurita-Taniguchi M, Hazeki K, Murabayashi N, Fukui A, Tsuji S, Matsumoto M, et al. Molecular assembly of CD46 with CD9, alpha3-beta1 integrin and protein tyrosine phosphatase SHP-1 in human macrophages through differentiation by GM-CSF. Mol Immunol. 2001;38:689-700. (FC, IP, WB, ICC)
- 3. Kamisasanuki T, Tokushige S, Terasaki H, Khai NC, Wang Y, Sakamoto T, et al. Targeting CD9 produces stimulus-independent antiangiogenic effects predominantly in activated endothelial cells during angiogenesis: a novel antiangiogenic therapy. Biochem Biophys Res Commun. 2011;413:128-35. (WB)
- 4. Hohdatsu T, Hirabayashi H, Motokawa K, Koyama H. Comparative study of the cell tropism of feline immunodeficiency virus isolates of subtypes A, B and D classified on the basis of the env gene V3-V5 sequence. J Gen Virol. 1996;77:93-100. (FC, Feline Reactivity)
- 5. Nishimura Y, Goto Y, Yoneda K, Endo Y, Mizuno T, Hamachi M, et al. Interspecies transmission of feline immunodeficiency virus from the domestic cat to the Tsushima cat (Felis bengalensis euptilura) in the wild. J Virol. 1999;73:7916-21. (FC, Feline Reactivity)
- 6. Yoon S, Zhang X, Freedman AS, Zahrieh D, Lossos IS, Li L, et al. Down-regulation of CD9 expression and its correlation to tumor progression in B lymphomas. Am J Pathol. 2010;177:377-86. (FC)
- 7. Yoon S, Zhang X, Lee IY, Spencer N, Vo P, Choi YS. CD9 is a novel marker for plasma cell precursors in human germinal centers. Biochem Biophys Res Commun. 2013;431:41-6. (FC, IHC-FS)
- 8. Yoon S, Lee IY, Zhang X, Zapata MC, Choi YS. CD9 may contribute to the survival of human germinal center B cells by facilitating the interaction with follicular dendritic cells. FEBS Open Bio. 2014;4:370-6. (FC, IHC-FS)
- 9. Löffler S, Lottspeich F, Lanza F, Azorsa DO, ter Meulen V, Schneider-Schaulies J. CD9, a tetraspan transmembrane protein, renders cells susceptible to canine distemper virus. J Virol. 1997;71:42-9. (FC, WB, IP, Canine, Feline, Rabbit, Monkey, Raccoon, and Hamster Reactivity)