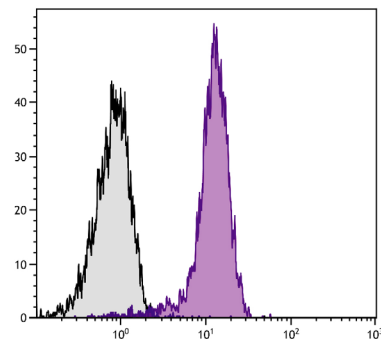




Rat Anti-Mouse CD31

Cat. No.	Format	Size
1625-01	Purified (UNLB)	0.5 mg
1625-02	Fluorescein (FITC)	0.5 mg
1625-08	Biotin (BIOT)	0.5 mg
1625-09	R-phycoerythrin (PE)	0.1 mg
1625-09L	R-phycoerythrin (PE)	0.2 mg
1625-11	Allophycocyanin (APC)	0.1 mg
1625-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
1625-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	0.1 mg
1625-26	Pacific Blue™ (PACBLU)	0.1 mg
1625-30	Alexa Fluor® 488 (AF488)	0.1 mg
1625-31	Alexa Fluor® 647 (AF647)	0.1 mg



BALB/c mouse splenocytes were stained with Rat Anti-Mouse CD31-APC (SB Cat. No. 1625-11).

Overview

Clone	390
Isotype	Rat (Lewis) IgG _{2a} κ
Immunogen	C3H/HeJ mouse hematopoietic progenitor cell line 32D
Specificity	Mouse CD31; Mr 130-140 kDa
Alternate Name(s)	Platelet endothelial cell adhesion molecule, PECAM-1, endoCAM, GPIIa

Description

CD31, also known as platelet endothelial cell adhesion molecule-1 (PECAM-1), is a type I integral membrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is constitutively expressed on the surface of endothelial cells and concentrated at the junction between them. It is also weakly expressed on many peripheral lymphoid cells and platelets. CD31 interacts homotypically in cell adhesion assays. The monoclonal antibody 390 inhibits the aggregation of L cells transfected with a variant form of CD31.

Applications

FC – Quality tested^{1,10-12,14}
 IHC-FS – Reported in literature¹⁻⁸
 ICC – Reported in literature⁹
 IP – Reported in literature^{1,14}
 Block – Reported in literature^{13,14}

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	≤ 1 µg/10 ⁶ cells
	FITC, BIOT, PACBLU, and AF488 conjugates	≤ 1 µg/10 ⁶ cells
	PE, APC, PE/CY7 and AF647 conjugates	≤ 0.2 µg/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.

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Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 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 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The allophycocyanin (APC) conjugate is supplied as 0.1 mg 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 of purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- The R-phycoerythrin-Cyanine 7 (PE/CY7) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Alexa Fluor[®] 488 (AF488), Alexa Fluor[®] 647 (AF647), and Pacific Blue™ (PACBLU) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaN₃. Store at 2-8°C.
- 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 (M)SDS.

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