

Technical Data Sheet

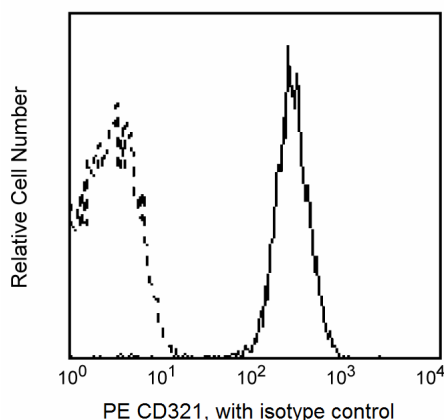
PE Mouse Anti-Human CD321 (JAM-1)

Product Information

Material Number:	552556
Alternate Name:	JAM-1; Platelet F11 receptor; F11R; JAM-A; PAM-1
Size:	100 Tests
Vol. per Test:	20 µl
Clone:	M.Ab.F11
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VIII 80154
Storage Buffer:	Aqueous buffered solution containing BSA, protein stabilizer, and ≤0.09% sodium azide.

Description

The M.Ab.F11 monoclonal antibody specifically binds to CD321 which is also known as JAM-1 (Junctional adhesion molecule 1), Junctional adhesion molecule A (JAM-A), and F11 Receptor (F11R). CD321 is a 32-35 kDa type I transmembrane glycoprotein that includes two extracellular immunoglobulin-like domains. CD321 is expressed on platelets, leucocytes, red blood cells, endothelial cells, epithelial cells, and various cell lines. CD321 functions as an adhesion receptor molecule on platelets. It also supports the tight junction formation between endothelial cells, where it may regulate the transendothelial migration of leucocytes, and epithelial cells. M.Ab.F11 is a stimulatory antibody that can induce morphological changes, granule secretion, and aggregation in human platelets.



Flow cytometric analysis of human CD321 staining on platelets. Peripheral blood platelets were stained with either PE Mouse Anti-Human CD321 (JAM-1) (Cat. No. 552556; solid line histogram) or PE Mouse IgG1, κ Isotype Control (Cat. No. 555749; dashed line histogram).

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

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.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, κ Isotype Control	100 Tests	MOPC-21
554656	Stain Buffer (FBS)	500 mL	(none)

Product Notices

- 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).
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry 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. An isotype control should be used at the same concentration as the antibody of interest.

References

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