Technical Data Sheet

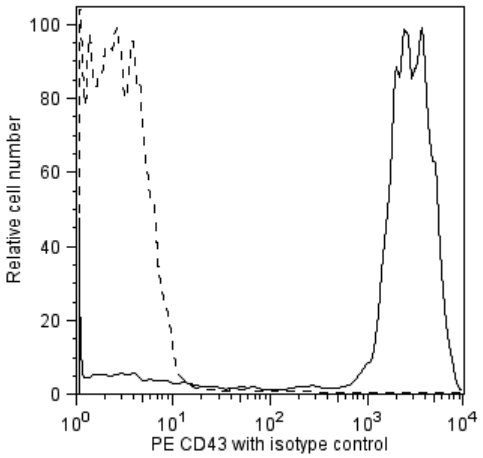
PE Mouse anti-Human CD43

Product Information

Material Number:	**560199**
Alternate Name:	SPN; Sialophorin; Galactoglycoprotein/GALGP; GPL115; LEUK; Leukosialin; LSN
Size:	100 Tests
Vol. per Test:	20 µl
Clone:	1G10
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VI N-L166
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The 1G10 monoclonal antibody specifically binds to CD43, a 95-135 kDa sialoglycoprotein that is highly expressed on most human leucocytes. CD43 is encoded by the *SPN* gene and is also known as Sialophorin, Galactoglycoprotein (GALGP), Leukosialin, and Leukocyte sialoglycoprotein. The CD43 antigen is expressed on T cells, pre-B cells and activated B cells, NK cells and granulocytes, but is not present on resting peripheral blood B cells, red blood cells, platelets and non-hematopoietic cells. CD43 is enzymatically shed from leucocyte surfaces following activation by various stimuli. CD43 appears to be involved in intercellular interactions that regulate T, B, and NK cell functions. This antibody is suitable for staining formalin-fixed, paraffin-embedded tissue sections with TUF pretreatment.



Flow cytometric analysis of PE anti-human CD43 on human lymphocytes. *Whole blood was stained with PE Mouse anti-Human CD43 (Cat. No. 560199; solid line histogram) and compared to whole blood stained with a PE mouse IgG1 isotype control (Cat. No. 555749; dashed line histogram). Erythrocytes were lysed with BD FACS™ Lysing Solution (Cat. No. 349202). Flow cytometry was performed on a BD FACSCalibur™ System and the histograms were derived from the gated events based on light scattering characteristics of viable cells.*

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

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)
554657	Stain Buffer (BSA)	500 mL	(none)
349202	BD FACS™ Lysing Solution	100 mL	(none)
555899	Lysing Buffer	100 mL	(none)

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Product Notices

1. 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).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. 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.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Borche L, Lozano F, Vilella R, Vives J. CD43 monoclonal antibodies recognize the large sialoglycoprotein of human leukocytes. *Eur J Immunol.* 1987; 17(10):1523-1526. (Biology)

Kishimoto T. Tadamitsu Kishimoto .. et al., ed. *Leucocyte typing VI : white cell differentiation antigens : proceedings of the sixth international workshop and conference held in Kobe, Japan, 10-14 November 1996.* New York: Garland Pub.; 1997(Clone-specific)

Knapp W. W. Knapp .. et al., ed. *Leucocyte typing IV : white cell differentiation antigens.* Oxford New York: Oxford University Press; 1989:1-1182. (Biology)

Schlossman SF. Stuart F. Schlossman .. et al., ed. *Leucocyte typing V : white cell differentiation antigens : proceedings of the fifth international workshop and conference held in Boston, USA, 3-7 November, 1993.* Oxford: Oxford University Press; 1995(Biology)