

Technical Data Sheet

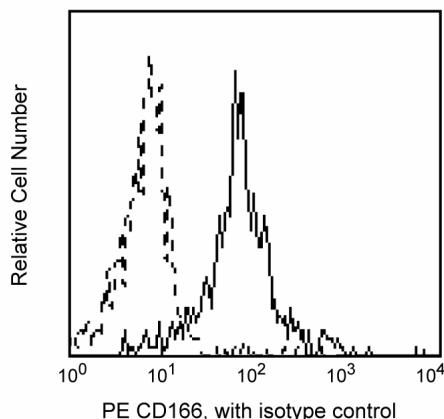
PE Mouse Anti-Human CD166

Product Information

Material Number:	560903
Alternate Name:	ALCAM, KG-CAM
Size:	25 tests
Vol. per Test:	20 µl
Clone:	3A6
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VI A109
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The 3A6 monoclonal antibody specifically binds to the activated leukocyte cell adhesion molecule (ALCAM), a 100-105 kDa transmembrane glycoprotein, also known as the CD6 ligand, CD166. It is composed of an immunoglobulin-like extracellular domain, a transmembrane region and a short cytoplasmic tail. ALCAM belongs to the Ig superfamily of proteins and is expressed on neurons, activated T cells, activated monocytes, epithelial cells and fibroblasts. CD166 plays an important role in mediating adhesion interactions between thymic epithelial cells and CD6+ cells during intrathymic T-cell development.



Profile of peripheral blood monocytes analyzed by flow cytometry.

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

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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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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.
4. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.

References

Aruffo A, Bowen MA, Patel DD, et al. CD6-ligand interactions: a paradigm for SRCR domain function?. *Immunol Today*. 1997; 18(10):498-504. (Biology)

Kishimoto T, von dem Borne AEG, Goyert SM, et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens*. London: Garland Publishing; 1997. (Biology)

Patel DD, Wee SF, Whichard LP, et al. Identification and characterization of a 100-kD ligand for CD6 on human thymic epithelial cells. *J Exp Med*. 1995; 181(4):1563-1568. (Biology)