Technical Data Sheet

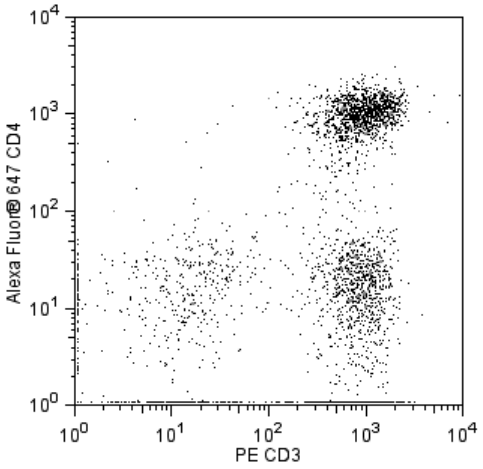
PE Mouse Anti-Pig CD3ε

Product Information

Material Number:	**561485**
Alternate Name:	CD3 epsilon subunit; CD3e; T-cell surface glycoprotein CD3 epsilon chain
Size:	50 µg
Concentration:	0.2 mg/ml
Clone:	BB23-8E6-8C8
Immunogen:	Pig peripheral blood mononuclear cells
Isotype:	Mouse (BALB/c) IgG2a, κ
Reactivity:	QC Testing: Pig
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The BB23-8E6-8C8 monoclonal antibody specifically binds to the 25-kDa ε chain of the T-cell receptor-associated CD3 complex. It recognizes all CD4+ and most CD8+ peripheral blood T lymphocytes, most thymocytes and phytohemagglutinin-stimulated blasts, and subsets of spleen and Peyer's patch lymphocytes. BB23-8E6-8C8 is a immunoglobulin isotype switch variant of the BB23-8E6 clone. This isotype-switch variant induces a proliferative response of peripheral blood mononuclear cells. The epitope recognized by BB23-8E6 mAb was designated CD3a by the Second International Swine CD Workshop.



Multicolor flow cytometric analysis of CD3 expression on pig peripheral blood lymphocytes. *Pig whole blood was stained simultaneously with PE Mouse Anti-Pig CD3ε antibody (Cat. No. 561485) and Alexa Fluor® 647 Mouse Anti-Pig CD4 antibody (Cat. No. 561472). The erythrocytes were lysed with BD PharmLyse™ Lysing Buffer (Cat. No. 555899). A two-color flow cytometric dot plot showing the correlated expression of CD3 versus CD4 was derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes. Flow cytometry was performed using a BD™ LSR II Flow Cytometer System.*

Preparation and Storage

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.

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

Application Notes

Application

Flow cytometry	Routinely Tested

BD Biosciences

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877.232.8995	888.268.5430	32.53.720.550	0120.8555.90	65.6861.0633	0800.771.7157

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Suggested Companion Products

Catalog Number	Name	Size	Clone
555899	Lysing Buffer	100 ml	(none)
554656	Stain Buffer (FBS)	500 ml	(none)
561472	Alexa Fluor® 647 Mouse Anti-Pig CD4a	50 µg	74-12-4
554648	PE Mouse IgG2a, κ Isotype Control	0.1 mg	G155-178

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
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 Fluorochrome Web Page at www.bdbiosciences.com/colors.

References

Pescovitz MD, Book BK, Aasted B. Summary of workshop findings for antibodies reacting with porcine T-cells and activation antigens: results from the Second International Swine CD Workshop. *Vet Immunol Immunopathol.* 1998; 60(3-4):251-260. (Clone-specific)

Pescovitz MD, Book BK, Aasted B. Analyses of monoclonal antibodies reacting with porcine CD3: results from the Second International Swine CD Workshop. *Vet Immunol Immunopathol.* 1998; 60(3-4):261-268. (Clone-specific)