Technical Data Sheet

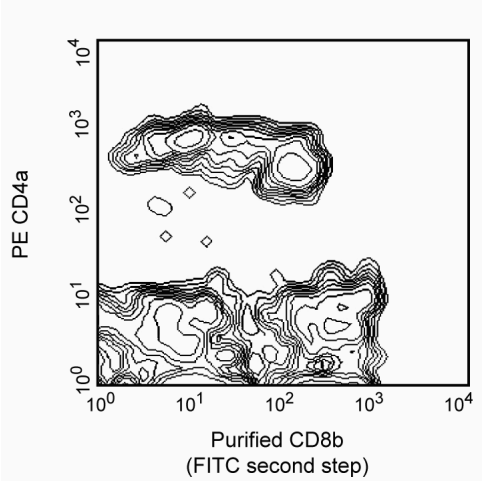
Purified Mouse Anti-Pig CD8b

Product Information

Material Number:	**552769**
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	295/33-25
Immunogen:	Pig thymocytes
Isotype:	Mouse (BALB/c) IgG2a, κ
Reactivity:	QC Testing: Pig
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 295/33-25 antibody reacts with an epitope on the CD8 α chain, a 35 kDa antigen expressed on thymocytes, peripheral T lymphocytes, and NK cells. The CD8 molecule can exist as a 70 kDa homodimer, composed of α chains, or heterodimer, composed of an α and a β chain. Two peripheral CD8+ T-cell populations can be distinguished in the pig: CD8-bright CD4- CTL effectors/precursors and CD8-dull CD4+ T-helper lymphocytes. Pig NK cells express CD8 (dull staining), CD2, MHC class II, LFA-1, and asialo-GM1; but not CD3, CD4, CD5, or CD6. mAb 295/33-25 was clustered as anti-CD8b at the First International Swine CD workshop.



CD8 expression on peripheral blood lymphocytes. *Yorkshire pig whole blood was stained with purified 295/33-25 monoclonal antibody followed by FITC-conjugated anti-mouse IgG2a mAb R19-15 (Cat. No. 553390), then PE-conjugated mAb 74-12-4 (anti-pig CD4a, Cat. No. 559586). Erythrocytes were lysed (BD PharmLyse ™, Cat. No. 555899), non-viable leukocytes were excluded by staining with 7-AAD (BD Via-Probe™, Cat. No. 555816/555815), and lymphocytes were gated according to scatter profile. Flow cytometry was performed on a BD FACSCalibur™ Flow Cytometry System.*

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4°C.

Application Notes

Application

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Reported
Immunoprecipitation	Reported
Cytotoxicity	Reported
ELISA	Reported
Immunohistochemistry-paraffin	Not Recommended

Suggested Companion Products

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Catalog Number	Name	Size	Clone
553390	FITC Anti-Mouse IgG2a	0.5 mg	R19-15
559586	PE Mouse Anti-Pig CD4a	0.1 mg	74-12-4
555899	Lysing Buffer	100 ml	(none)
555816	Cell Viability Solution	100 tests	(none)
553454	Purified Mouse IgG2a κ Isotype Control	0.5 mg	G155-178

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.
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.

References

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