Anti Porcine CD4B

Background
CD4 is a glycoprotein expressed on the surface of immature T-cells in the thymus, helper T-cells and antigen presenting cells. CD4 is known to function as a co-receptor of T-cell receptor when T-cells recognizes the peptide antigen presented by MHC class II molecules on antigen presenting cells. CD4 polymorphisms were reported in many mammal species including various porcine strains. This antibody (clone b1D7) recognizes only porcine CD4.B, a subtype of CD4 molecules, which allows researchers to distinguish CD4.B positive cells and CD4.A positive cells

Product type	Primary Antibody
Immunogen	Porcine CD4B/B
Raised in	Mouse
Myeloma	PX63-U1
Clone number	b1D7
Isotype	IgG1 kappa
Purification	--------
Buffer	Phosphate buffer saline containing 50% glycerol
Concentration	1m g /mL
Volume	100 uL
Label	Unlabeled
Specificity	Porcine CD4B (does not react with CD4A/A swine, human, mouse and marmoset CD4)
Strorage	Store below -20℃ *Aliquot to avoid cycle of freeze/thaw
Reference	1. Matsubara T, Nishii N, Takashima S, Takasu M, Imaeda N, Aiki-Oshimo K, Yamazoe K, Kametani Y, Ando A, Kitagawa H, et al. Identification of a CD4 variant in Microminipigs not detectable with available anti-CD4 monoclonal antibodies. Veterinary Immunology Immunopathology. 168 (2015) 176-183

Recommended Dilutions	Flowcytometry (1:10) Other applications have not been tested or not reactive. Optimal dilutions/concentrations should be determined by the end user.

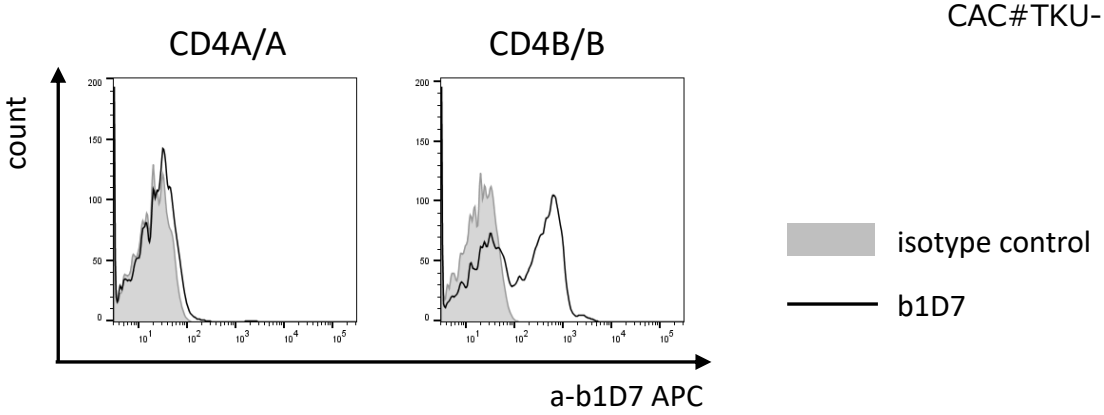

Fig 1. Flow cytometry
1μL of b1D7 (0.1mg/mL) was added to 40μL of cell suspension (usually 1x10E^6cells) in Fisher tube and incubated for 15min at 4℃. After washing the cells with PBS, secondary antibody (anti-mouse IgG1 APC) diluted to suitable concentration was added and incubated for 15min at 4℃ in a dark place. After washing the cells with PBS, cells were analyzed by flowcytometry. Lymphocytes were gated and analyzed by Fowjo™ . Human, common marmoset, mouse, and CD4A/A swine PBMCs are not reactive with b1D7.

For research use only, Not for diagnostic use.

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