

Mouse anti-Chicken CD8a-PE/CY5 Monoclonal Antibody

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CATALOG # AAA78627	HOST Mouse	REACTIVITY Chicken	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD8a-PE/CY5; Monoclonal Antibody; Mouse Anti-Chicken CD8a-PE/CY5; Mouse Anti-Chicken CD8alpha; anti-CD8a-PE/CY5 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Chicken
Clonality	Monoclonal
Isotype	IgG1 kappa
Clone Number	CT-8
Specificity	Chicken/Turkey/Guinea Fowl/Pigeon CD8 α ; Mr 34 kDa
Form/Format	Spectral Red $\text{\textcircled{R}}$ (SPRD) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN $_3$ and a stabilizing agent
Applicable Applications for anti-CD8a-PE/CY5 antibody	FCM/FACS (Flow Cytometry)
Characterization	To ensure lot-to-lot consistency, each batch of monoclonal antibody is tested by flow cytometry to conform to characteristics of a standard reference. Representative data are included in this product insert.
Immunogen	Chicken thymocytes and Ig-negative blood leukocytes
Warning	Some reagents contain sodium azide. Please refer to product specific SDS
Preparation and Storage	Store at 2-8°C. Do not freeze!

ADDITIONAL INFORMATION

Related Product Information for anti-CD8a-PE/CY5 antibody	In the chicken, the CD8 molecule is present in two forms - (i) a homodimer of two α chains and (ii) a heterodimer of an α chain and a β chain. While the vast majority of CD8 $^{+}$ cells in the thymus, spleen, and blood of adult chickens express both CD8 α - and CD8 β -chains, a relatively large proportion of the CD8 $^{+}$ TCR $\alpha\beta$ cells in the spleens of embryos and young chicks express only the α -chain of CD8. Among intestinal epithelial lymphocytes, the major CD8 $^{+}$ T cell populations present in mice are conserved but there is a population of TCR $\alpha\beta$ CD8 $\alpha\beta$ cells in the chicken that is not found in rodents. Chicken CD8 is expressed on approximately 80% of thymocytes, 15% of blood mononuclear cells, and 50% of spleen cells but less than 1% of cells in the bursa and bone marrow. The monoclonal antibody CT-8 recognizes the CD8 α chain and has been shown to react to a polymorphic determinant in turkey.
References	1. Tregaskes, C.A., F. Kong, E. Paramithiotis, C.-L. Chen, M.J.H. Ratcliffe, T. F. Davison, and J.R. Young. 1995. J. Immunol. 154:4485. 2. Chan, M.L., C.-L. Chen, L. Ager, and M.D. Cooper. 1988. J. Immunol. 140:2133. 3. Cooper, M.D., R.P. Bucy, and C.-L. Chen. 1990. In: The Avian Model in Developmental Biology: From Organism to Genes. Editions du CNRS, pp. 239-249. 4. Chen, C.H. 1996. Personal communication.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

