Mouse anti-Chicken TCR alpha beta (V beta 1) Monoclonal Antibody

Mouse Anti-Chicken TCRab/Vb1-UNLB

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78704	**Mouse**	**Chicken**	**Immunoprecipitation, Immunohistochemistry, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

TCR alpha beta (V beta 1); Monoclonal Antibody; Mouse Anti-Chicken TCRab/Vb1-UNLB; Mouse Anti-Chicken TCRab/Vb1 - Purified; Unlabeled Antibody; Mouse Anti-Chicken TCR alpha beta (V beta 1); anti-TCR alpha beta (V beta 1) antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Chicken
Clonality	Monoclonal
Isotype	Mouse IgG1 kappa
Clone Number	TCR-2
Specificity	Chicken/Turkey/Peacock/Guinea Fowl TCRalphabeta/V $beta_1$; Mr 50& 40 kDa
Form/Format	The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added.
Applicable Applications for anti-TCR alpha beta (V beta 1) antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Characterization	To ensure lot-to-lot consistency, each batch of monoclonal antibody is tested to conform with characteristics of a standard reference reagent using immunofluorescence staining and analysis on a Becton Dickinson FACScanTM flow cytometer.
Preparation and Storage	Store at 2-°C.

ADDITIONAL INFORMATION

Related Product Information for anti-TCR alpha beta (V beta 1) antibody	MAb TCR2 precipitates a CD3-associated heterodimer of Mr 90-kDa (two bands of Mr 40-kDa and 50- kDa upon reduction) on chicken peripheral blood T cells.1 Deglycosylation of the heterodimer yields two polypeptides of Mr 34-kDa and 29-kDa from TCR2 precipitates. In the chicken, two distinct subpopulations of alpha beta T cells appear in the thymus subsequent to the appearance of gamma delta T cells. These subpopulations, originally denoted as TCR2 and TCR3,1-3 arise sequentially in the thymus during ontogeny and are now known to represent two distinct V beta families, V beta 1 and V beta 2, respectively.4 The TCR2 MAb reacts with approximately 40% of thymocytes, 40-50% of blood mononuclear cells and 40% of splenocytes in the chicken. Two-color immunofluorescence has revealed that most of the TCR2+ thymocytes express both CD4 and CD8 antigens. The TCR2+ cells in blood were found to express either CD4 (74+/-2%) or CD8 (26+/-4%). TCR2+ cells in the spleen also express either CD4 (37+/-1%) or CD8 (64+/-4%). Surprisingly, a relatively large subpopulation of CD8+ cells in the spleen are negative for TCR2.1-3 This observation led to the demonstration that 71+/-6% of the TCR1(gamma delta)+ cells in the spleen express the CD8 marker.

References	1. Chen, C.H., J. Cihak, U. Losch, and M.D. Cooper. 1988. Eur. J. Immunol. 18:539. 2. Chen, C.H., J.T. Sowder, J.M. Lahti, J. Cihak, U. Losch, and M.D. Cooper. 1989. Proc. Natl. Acad. Sci. (USA):86:2351 3. Char, D., P. Sanchez, C.H. Chen, R.P. Bucy, and M.D. Cooper. 1990. J. Immunol. 145:3547. 4. Chen, C.H., T.W.F. Gobel, T. Kubota, and M.D. Cooper. 1993. 1994. Poultry Science 73:1012. 5. Sowder, J.T., C.H. Chen, L.L. Ager, J. Cihak, U. Losch, and M.D. Cooper. 1988b. Fed. Proc. 2:874. 6. Cihak, J., U. Losch, G. Hoffman-Hezer, C.H. CHen, M.D. Cooper, and H.W.L. Ziegler-Heitbrock. 1993. Scand. J. Immunol. 38:123. 7. 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.

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