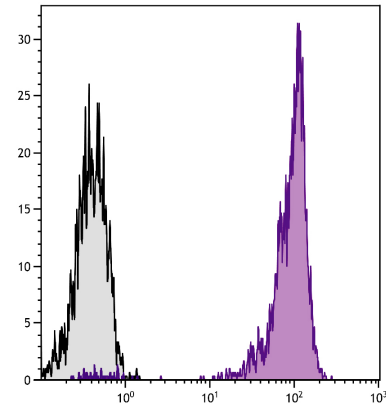




Mouse Anti-Chicken CD45

Cat. No.	Format	Size
8270-01	Purified (UNLB)	0.5 mg
8270-02	Fluorescein (FITC)	0.5 mg
8270-08	Biotin (BIOT)	0.5 mg
8270-09	R-phycoerythrin (PE)	0.1 mg
8270-11	Allophycocyanin (APC)	0.1 mg
8270-13	Spectral Red® (SPRD)	0.1 mg
8270-30	Alexa Fluor® 488 (AF488)	0.1 mg



Chicken peripheral blood lymphocytes were stained with Mouse Anti-Chicken CD45-UNLB (SB Cat. No. 8270-01) followed by Goat Anti-Mouse IgM, Human ads-FITC (SB Cat. No. 1020-02).

Overview

Clone	LT40
Isotype	Mouse (BALB/c) IgMκ
Immunogen	Chicken bursal lymphocytes
Specificity	Chicken CD45; Mr 190-215 kDa
Alternate Name(s)	N/A

Description

Chicken CD45 is a transmembrane glycoprotein expressed on all leukocytes. B lineage cells in the bursa of Fabricius express the 215 kDa isoform while T lineage cells bear the 190 kDa variant. These high molecular weight molecules have intrinsic phosphotyrosine phosphatase activity characteristic of mammalian CD45. Levels of CD45 expression detected by the monoclonal antibody LT40 in the avian thymus are heterogeneous with approximately 90% of thymocytes expressing fourfold higher levels of surface CD45 (CD45^{hi}) than do the remaining 10% (CD45^{low}) of thymocytes. The CD45^{low} population contains exclusively thymocytes with the CD3⁺CD4⁺CD8^{low} phenotype characteristic of the immediate precursors to the CD3⁺CD4⁺CD8⁺ thymic population which are CD45^{hi}. This shift from low to high levels of surface CD45 expression is concomitant with the transition from CD4⁺CD8^{low} to CD4⁺CD8⁺ and before the expression of CD3. The ability of the monoclonal antibody LT40 to discriminate this CD45^{low} subpopulation provides a suitable marker for the CD3⁺CD4⁺CD8^{low} immediate precursors to the CD3⁺CD4⁺CD8⁺ thymocytes.

Applications

FC – Quality tested ^{1,6-18}
 IHC-FS – Reported in literature ²
 IHC-PS – Reported in literature ³
 IHC-WM – Reported in literature ⁴
 ICC – Reported in literature ¹⁹
 IP – Reported in literature ¹
 Sep – Reported in literature ⁵

Working Dilutions

Flow Cytometry	FITC, BIOT, and AF488 conjugates	≤ 1 µg/10 ⁶ cells
	PE, APC, and SPRD conjugates	≤ 0.2 µg/10 ⁶ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL	

Other Applications	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.
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For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) and allophycocyanin (APC) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red® (SPRD) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Alexa Fluor® 488 (AF488) conjugate is supplied as 0.1 mg in 0.2 mL of PBS/NaN₃. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

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