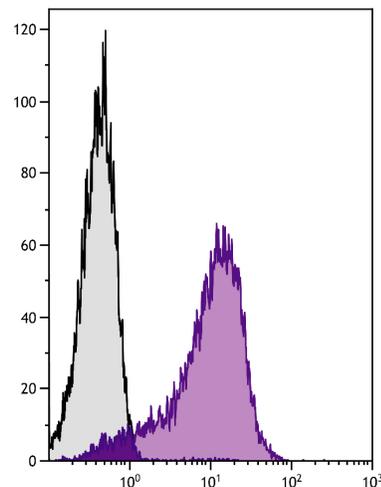




Mouse Anti-Chicken MCAM

Cat. No.	Format	Size
8385-01	Purified (UNLB)	0.5 mg
8385-02	Fluorescein (FITC)	0.5 mg
8385-08	Biotin (BIOT)	0.5 mg
8385-09	R-phycoerythrin (PE)	0.1 mg



Chicken thymocytes were stained with Mouse Anti-Chicken MCAM-UNLB (SB Cat. No. 8385-01) followed by Goat Anti-Mouse IgG_{2b}, Human ads-PE (SB Cat. No. 1090-09).

Overview

Clone	C264
Isotype	Mouse (BALB/c) IgG _{2b} K
Immunogen	Mixture of E15 and E16 thymocytes from H.B15, H.B19, and H.B21 chicken embryos
Specificity	Chicken/Turkey MCAM; Mr 98 kDa
Alternate Name(s)	CD146, HEMCAM, melanoma cell adhesion molecule

Description

Chicken MCAM, a member of the immunoglobulin superfamily of cell surface receptors, consists of the V-V-C2-C2-C2 Ig domains. It is a single chain glycoprotein with three mRNA splice variants. One has a short cytoplasmic tail, another has a long tail, and the third seems to lack transmembrane and cytoplasmic regions. It is highly homologous to gicerin, a molecule involved in neurite outgrowth and Wilm's kidney tumor progression in the chicken, and to the human melanoma progression molecule MUC18. Chicken MCAM is expressed by c-kit⁺ hematopoietic progenitor cells in embryonic bone marrow, thymocytes, and capillary endothelial cells. MCAM-expressing cells sorted from bone marrow are enriched in progenitors capable of differentiating into T cells when transferred into the appropriate thymic microenvironment. MCAM has been proposed to be involved in cellular adhesion and homing processes.

Applications

FC – Quality tested ¹⁻⁸
 ICC – Reported in literature ¹
 IP – Reported in literature ^{1,2}

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	≤ 1 µg/10 ⁶ cells
	FITC and BIOT conjugates	≤ 1 µg/10 ⁶ cells
	PE 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.

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) 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!**
- 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.

References

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8. Meyerhoff RR, Ali RA, Liu K, Huang G, Koci MD. Comprehensive analysis of commercially available mouse antichickens monoclonal antibodies for cross-reactivity with peripheral blood leukocytes from commercial turkeys. *Poult Sci.* 2012;91:383-92. (FC, Turkey Reactivity)

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