	Anti-Mouse CD4 Antibody, Clone RM4-5, Biotin		STENCELL ^M	
Antibodies		oclonal IgG2a antibody nouse CD4, biotin-conjugated	Scientists Helping Scientists [™] WWW.STEMCELL.COM	
			TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713	
Catalog #60017BT #60017BT.1	500 μg 50 μg	0.5 mg/mL 0.5 mg/mL	INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM	
			FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE	
			FOR RESEARCH USE ONLY, NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.	

Product Description

The RM4-5 antibody reacts with mouse CD4, an ~55 kDa single-chain type 1 transmembrane glycoprotein and member of the immunoglobin (Ig) superfamily; CD4 contains four extracellular Ig-like domains. CD4 is expressed at relatively high levels by most thymocytes and a subpopulation of T cells (T-helper/inducer cells), and at lower levels on dendritic cells. In the mouse, CD4 is not expressed by monocytes/macrophages. CD4 binds to a non-polymorphic region of MHC II and acts as a co-receptor to the T cell receptor (TCR) in MHC II-restricted antigen recognition by enhancing the avidity of the association between the TCR and MHC II-antigen complex. CD4 also functions to amplify signals from the TCR to the cytoplasm through the interaction of its intracellular domain with cytoplasmic tyrosine kinases such as Lck. Binding of the RM4-5 antibody to CD4 inhibits ligand binding in vitro. Moreover, binding of the RM4-5 antibody.

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Applications

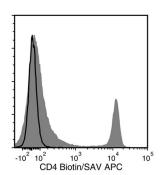
Verified:	CellSep, FC
Reported:	FC, IHC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including
	EasySep™ Mouse CD4+ T Cell Isolation Kit (Catalog #19852).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; WB: Western blotting

Properties	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Purification:	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	For flow cytometry the suggested use of this antibody is \leq 0.25 µg per 1 x 10e6 cells in 100 µL volume. It is recommended that the antibody be titrated for optimal performance for each application.



Data



Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD4 Antibody, Clone RM4-5, Biotin followed by streptavidin (SAV) APC (filled histogram) or a rat IgG2a, kappa biotin isotype control antibody followed by SAV APC (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

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