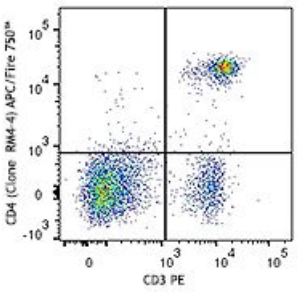
SONY

Product Data Sheet

APC/Fire™ 750 anti-mouse CD4

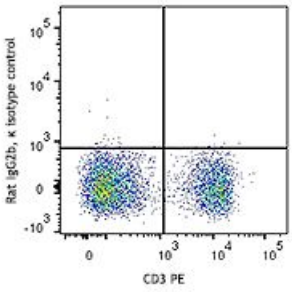
Catalog # / Size:	1180095 / 25 µg 1180100 / 100 µg
Clone:	RM4-4
Isotype:	Rat IgG2b, κ
Immunogen:	BALB/c mouse thymocytes
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	750 under optimal conditions.
Concentration:	0.2 mg/ml



C57BL/6 mouse splenocytes stained with CD3 (145-2C11) PE and RM4-4 APC/Fire™ 750 (above) or APC/Fire™ Rat IgG2b, κ Isotype control Antibody (below).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application. * APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.
Application Notes:	RM4-4 antibody does not block the binding of GK1.5 and RM4-5 antibodies to CD4 T cells. For immunohistochemistry applications, the RM4-5 (Cat. No. 100506) and GK1.5 (Cat. No. 100402) antibodies are recommended.



C57BL/6 mouse bone marrow cells were stained with CD150 (SLAM) (clone TC15-12F12.2) APC/Fire™ 750 (filled histogram) or rat IgG2a, κ APC/Fire™ 750 isotype control (open histogram).

Application References:

1. Bendelac A. 1995. *Curr. Opin. Immunol.* 7:367.
2. Norian LA and Allen PM. 2004. *J. Immunol.* 173:835.

Description: CD4 is a 55 kD protein, also known as L3T4 or T4. It is a member of the Ig superfamily, primarily expressed on most thymocytes and a subset of T cells, and weakly on macrophages and dendritic cells. It acts as a coreceptor with the TCR during T cell activation and thymic differentiation by binding MHC class II and associating with the protein tyrosin kinase, lck.

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Antigen References:
1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Bierer BE, *et al.* 1989. *Annu. Rev. Immunol.* 7:579.
3. Janeway CA. 1992. *Annu. Rev. Immunol.* 10:645.