Brilliant Violet 650[™] anti-mouse CD4

Catalog # / Size:	1102345 / 50 μg	
Clone:	GK1.5	
lsotype:	Rat IgG2b, к	e 600
Immunogen:	Mouse CTL clone V4	Allhant Voolet
Reactivity:	Mouse	Di Iclone Git.3) Brilliant Velet 609
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 650 [™] and unconjugated antibody.	eg g g g cosk FITC
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).	C57BL/6 mouse splenocytes were stained with CD3c FITC and CD4 (clone GK1.5) Brilliant Violet
Concentration:	0.2 mg/ml	650™ (left) or rat lgG2b

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 $\leq 0.25 \ \mu$ g per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 650[™] excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 650[™] is a trademark of Sirigen Group Ltd.

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Application Notes: Additional reported applications (for the relevant formats) include: blocking of CD4⁺ T cell activation^{1,4,11}, thymocyte costimulation³, *in vitro* and *in vivo* depletion^{2,5-8}, blocking of egg-sperm cell adhesion^{1,4}, immunohistochemical staining of acetone-fixed frozen sections^{9,10}, and immunoprecipitation^{1,2}. The GK1.5 antibody is able to block CD4 mediated cell adhesion and T cell activation. Binding of GK1.5 antibody to CD4 T cells can be blocked by RM4-5 antibody, but not RM4-4 antibody.

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

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, 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, Ick.
Antigen	1. Barclay A, <i>et al.</i> 1997. The Leukocyte Antigen FactsBook Academic Press.
References:	2. Bierer BE, <i>et al.</i> 1989. <i>Annu. Rev. Immunol.</i> 7:579.

3. Janeway CA. 1992. Annu. Rev. Immunol. 10:645.