

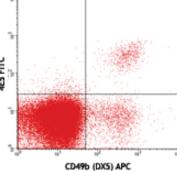
Product Data Sheet

FITC anti-mouse Ly49D

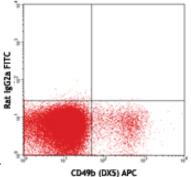
Catalog # / Size:	138303 / 50 μg 138304 / 200 μg	*
Clone:	4E5	
Isotype:	Rat IgG2a, κ	-
Reactivity:	Mouse	
Preparation:	The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.	EI LICE
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.	and the second states
Concentration:	0.5 mg/ml	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Storage:	The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.	
		CD4

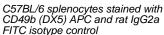
Applications:

Applications: FC - Quality tested Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent 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. Application Notes: Additional reported applications (for relevant formats) include: immunoprecipitation¹ and blocking^{2, 3} of CHO cell or Con A-activated lymphoblast killing by NK cells. Rat IgG2a FITC Application References: 1. Mason LH, et al. 1998. J. Immunol. 160:4148. (IP) Idris A, et al. 1999. Proc. Natl. Acad. Sci. 96:6330. (FC Block)
George TC, et al. 1999. J. Immunol. 162:2035. (FC Block)
Ortaldo JR, et al. 1999. J. Leukoc. Biol. 66:512. (FC) 5. Ortaldo JR, et al. 1998. J. Immunol. 160:1158. (FC) Description: Ly49D is a type II transmembrane protein belonging to the Ly49 family of NK-cell receptors in the C-type lectin superfamily. Ly49D is expressed on subsets of natural killer (NK) cells in C57BL/6, C3H/He and SJL mouse strains, but not Balb/c, DBA/2, AKR and CBA/J. The receptors form FITC isotype control homodimers that bind to MHC class I alloantigens. Unlike inhibitory Ly49 family members, Ly49D lacks a cytoplasmic immunoreceptor tyrosine-based inhibitory motif (ITIM) but contains a cytoplasmic immunoreceptor tyrosine-based activation motif. The activating receptor Ly49D delivers stimulatory signals for target cell lysis upon interacting with H2-D^d, D^r and D sp², but not with H2^b or H2^k class I antigens. Cross-linking of Ly49D activates intracellular kinase activity and calcium mobilization in NK cells. In 129/J mice, 4E5 antibody cross-reacts with Ly49O, LY49R and Ly49V. Antigen References: 1. Yokoyama WM and Seaman WE. 1993. Annu. Rev. Immunol. 11:613. Takei F, et al. 1997. Immunol. Rev. 155:67. 2. 3. Hanke T, et al. 1999. Immunity 11:67. 4. Mason LH, et al. 1996. J. Exp. Med. 184:2119. Related Products: Product Clone Application FC, ICFC FC, ICC, ICFC FITC Rat IgG2a, ĸ Isotype Ctrl RTK2758 Cell Staining Buffer FC, ICFC RBC Lysis Buffer (10X) TruStain fcX™ (anti-mouse CD16/32) 93



C57BL/6 splenocytes stained with CD49b (DX5) APC and 4E5 FITC





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