

## **Product Data Sheet**

## FITC anti-human CD158e1 (KIR3DL1, NKB1)

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Catalog # / Size:	312705 / 25 tests 312706 / 100 tests			
Clone:	DX9			.A
Isotype:	Mouse IgG1, ĸ			
Immunogen:	Human NK cell clone VL186-1.6			
Reactivity:	Human		2	
Preparation:	The antibody was purified by affinity chromatography, an FITC under optimal conditions. The solution is free of un		Relative Cell Number	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% $ 0.2\%$ (w/v) BSA (origin USA).	sodium azide and	ž 🖌	
Storage:	The antibody solution should be stored undiluted at 4°C prolonged exposure to light. Do not freeze.	and protected from	10 <sup>0</sup>	10 <sup>1</sup> 10 <sup>2</sup> 10 <sup>3</sup> 10 <sup>4</sup>
Application	S:			Log Fluoresence Intensity
••	FC - Quality tested			n peripheral blood lymphocytes d with DX9 FITC
	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. <b>Test size products are transitioning from 20 <math>\mu</math>I to 5 <math>\mu</math>I per test</b> . Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 $\mu$ I staining volume or per 100 $\mu$ I of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.			
Application Notes:	The DX9 antibody reacts with the KIR (killer cell inhibitory receptor) designated NKB1 or KIR3DL1. Additional reported applications (for the relevant formats) include: immunoprecipitation <sup>1</sup> and restoring the NK cell cytotoxicity <sup>4,8</sup> . The LEAF <sup>™</sup> purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 312710).			
Application References:	<ol> <li>Litwin V, et al. 1994. J. Exp. Med. 180:537. (IP)</li> <li>Gumperz J, et al. 1996. J. Exp. Med. 183:1817.</li> <li>Gardiner CM, et al. 2001. J. Immunol. 166:2992.</li> <li>Bakker ABH, et al. 1998. J. Immunol. 160:5239.</li> <li>Goodier M, et al. 2000. J. Immunol. 165:139.</li> <li>Kirwan SE and Burshtyn DN. 2005. J. Immunol. 175:5006. (FC)</li> <li>Yawata M, et al. 2002. Immunolgenetics 54:543.</li> <li>Valiante NM, et al. 2007. J. Immunol. 179:1625. (FC) PubMed</li> <li>Lichterfeld M, et al. 2008. J. Exp. Med. 204:2813. (FC) PubMed</li> </ol>			
Description:	NKB1 is a 70 kD member of the immunoglobulin superfamily that is expressed on a subset of natural killer cells and T cells at varying levels among individuals. NKB1 is a type I membrane protein containing two immunoglobulin C2-type domains. The interaction of NKB1 with specific HLA-B antigens on a target cell (the HLA-Bw4 allele, for example) inhibits cytotoxicity and prevents target cell lysis and death. The interactions between KIR and MHC class I are thought to be important in NK and T cell regulation following antigen stimulation. The absence of ligands for KIRs may lower the threshold for activation through activating receptors and increase inflammation and susceptibility to autoimmune disease.			
Antigen References:	<ol> <li>Colonna M, et al. 1995. Science 268:405.</li> <li>D'Andrea A, et al. 1995. J. Immunol. 155:2306.</li> <li>Uhrburg M, et al. 1997. Immunity 7:753.</li> <li>Gumperz JE, et al. 1996. J. Exp. Med. 183:1817.</li> <li>Wagtmann N, et al. 1995. Immunity 3:801.</li> </ol>			
Related Products	FITC anti-human CD16 FITC anti-human CD94 FITC anti-human HLA-DR FITC Mouse IgG1, κ Isotype Ctrl Cell Staining Buffer RBC Lysis Buffer (10X) FITC anti-human CD56 (NCAM) FITC anti-human HLA-A,B,C FITC anti-human CD158b (KIR2DL2/L3, NKAT2)	Clone 3G8 DX22 L243 MOPC-21 MEM-188 W6/32 DX27	F F F F F	Application FC FC FC FC, ICFC FC, ICFC FC, ICFC FC FC FC
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