

PE anti-human CD158e1 (KIR3DL1, NKB1)

Catalog # / Size: 312707 / 25 tests
312708 / 100 tests

Clone: DX9

Isotype: Mouse IgG1, κ

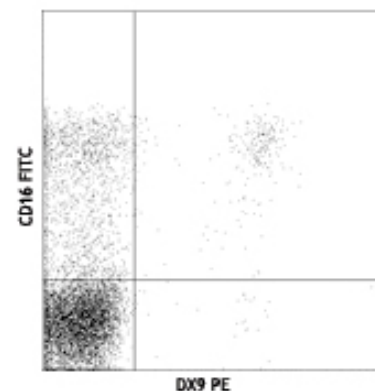
Immunogen: Human NK cell clone VL186-1.6

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with DX9 PE and CD16 FITC

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l 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: immunoprecipitation¹ and restoring the NK cell cytotoxicity^{4,8}. The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 312710).

- Application References:**
- Litwin V, et al. 1994. *J. Exp. Med.* 180:537. (IP)
 - Gumperz J, et al. 1996. *J. Exp. Med.* 183:1817.
 - Gardiner CM, et al. 2001. *J. Immunol.* 166:2992.
 - Bakker ABH, et al. 1998. *J. Immunol.* 160:5239.
 - Goodier M, et al. 2000. *J. Immunol.* 165:139.
 - Kirwan SE and Burshtyn DN. 2005. *J. Immunol.* 175:5006. (FC)
 - Yawata M, et al. 2002. *Immunogenetics* 54:543.
 - Valiante NM, et al. 1997. *Immunity* 7:739.
 - Pascal V, et al. 2007. *J. Immunol.* 179:1625. (FC) PubMed
 - Lichterfeld M, et al. 2008. *J. Exp. Med.* 204:2813. (FC) PubMed

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:**
- Colonna M, et al. 1995. *Science* 268:405.
 - D'Andrea A, et al. 1995. *J. Immunol.* 155:2306.
 - Uhrburg M, et al. 1997. *Immunity* 7:753.
 - Gumperz JE, et al. 1996. *J. Exp. Med.* 183:1817.
 - Wagtmann N, et al. 1995. *Immunity* 3:801.

Related Products:

Product	Clone	Application
PE anti-human CD16	3G8	FC
PE anti-human CD94	DX22	FC
PE anti-human HLA-DR	L243	FC
PE Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
PE anti-human CD56 (NCAM)	MEM-188	FC
PE anti-human HLA-A,B,C	W6/32	FC



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PE anti-human CD158b (KIR2DL2/L3, NKAT2)
Human TruStain FcX™ (Fc Receptor Blocking Solution)

DX27

FC
FC, ICC, ICFC



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