

Product Data Sheet

102

Log Fluoresence Intensity

Human peripheral blood lymphocytes stained with purified DX9, followed by anti-mouse IgG FITC

10⁴

100

Purified anti-human CD158e1 (KIR3DL1, NKB1)

Catalog # / Size: 312702 / 100 µg

Clone: DX9

Isotype: Mouse IgG1, κ

Immunogen: Human NK cell clone VL186-1.6

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

Applications:

Applications: FC - Quality tested IP - Reported in the literature

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 \leq 0.5 μg per 10⁶ cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each

application.

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 cytotoxicity⁴,8. The LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional

assays (Cat. No. 312710).

Application References: 1. 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.

4. Bakker ABH, et al. 1998. J. Immunol. 160:5239.

5. Goodier M, et al. 2000. J. Immunol. 165:139.

6. Kirwan SE and Burshtyn DN. 2005. J. Immunol. 175:5006. (FC)

7. Yawata M, et al. 2002. Immunogenetics 54:543.

8. Valiante NM, et al. 1997. Immunity 7:739. 9. Pascal V, et al. 2007. J. Immunol. 179:1625. (FC) PubMed 10. 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.

4. Gumperz JE, *et al.* 1996. *J. Exp. Med.* 183:1817. 5. Wagtmann N, *et al.* 1995. *Immunity* 3:801.

Related	Products:	Product
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Purified anti-human CD16	3G8	FC, IHC, IP, CyTOF®
Purified anti-human CD94	DX22	FC, IHC, IP
Purified anti-human HLA-DR	L243	FC, IHC, IP, WB, CyTOF®
Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, ICC, IF, IHC, IP, WB
APC Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
FITC Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
PE Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
Cell Staining Buffer	•	FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Purified anti-human CD56 (NCAM)	MEM-188	FC, IHC, IP, WB
Purified anti-human HLA-A`B C	W6/32	FC IHC IP WB

Clone



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Application



