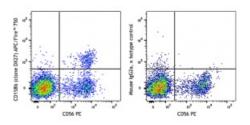
APC/Fire[™] 750 anti-human CD158b (KIR2DL2/L3, NKAT2)

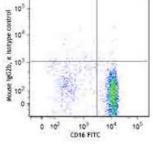
Catalog # / Size:	2163090 / 100 tests 2163085 / 25 tests
Clone:	DX27
lsotype:	Mouse IgG2a, к
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire [™] 750 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	Lot-specific



LWB were stained with human CD158b (KIR2DL2/L3, NKAT2) (clone DX27) APC/Fire[™] 750 (left) or mouse IgG2a, ĸ APC/Fire[™] 750 isotype contrl (right).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Flow Cytometry 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 5 μL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood.
	* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.
Application Notes:	The DX27 monoclonal antibody reacts with a common epitope of KIR2DL2 (CD158b1, p58.2), KIR2DL3 (CD158b2, p58.3), and KIR2DS2 (CD158j, p50.2). Additional reported applications (for the relevant formats) include: restoring the NK cell cytotoxicity ^{1,5} .
	This clone has been tested in-house and determined to not be suitable for applications in immunohistochemistry of paraffin- embedded tissue sections (IHC-P).
Application References:	 Bakker ABH, et al. 1998. J. Immunol. 160:5239. Lucas M, et al. 2003. J. Virol. 77:2251. Goodier M, et al. 2000. J. Immunol. 165:139. Yawata M, et al. 2002. Immunogenetics 54:543. Valiante NM, et al. 1997. Immunity 7:739.



Description: CD158b is expressed on natural killer cells and a subset of T cells. It is a member of the immunoglobulin superfamily containing two immunoglobulin C2-type domains. Both variants and alternative isoforms of CD158b have been reported. The interaction of CD158b with specific HLA-C antigens on a target cell (HLA-Cw1, HLA-Cw3, HLA-Cw7 alleles, 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 cell 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.

1. Colonna M, et al. 1995. Science 268:405. Antigen **References:**

- 2. Uhrburg M, et al. 1997. Immunity 7:753.
- 3. Wagtmann N, et al. 1995. Immunity 3:801.
 - 4. Dohring C, et al. 1996. Immunogenetics 44:227.
 - 5. Maenaka K, et al. 1999. Structure 7:391.