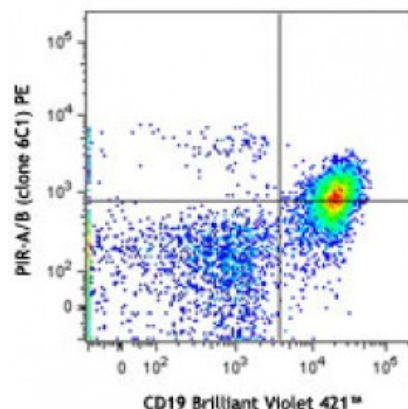


PE anti-mouse PIR-A/B

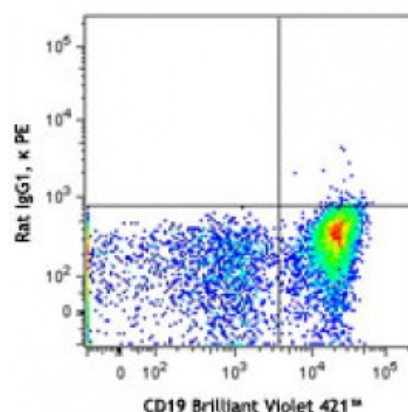
Catalog # / Size:	1320515 / 25 µg 1320520 / 100 µg
Clone:	6C1
Isotype:	Rat IgG1, κ
Immunogen:	Recombinant extracellular domains 1 and 2 of PIR-A
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2



C57BL/6 mouse splenocytes were stained with CD19 Brilliant Violet 421™ and PIR-A/B (clone 6C1) PE (top) or rat IgG1, κ PE isotype control (bottom).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	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 ≤0.125 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Additional reported applications for the relevant formats include: Western Blotting ¹ and immunohistochemical staining of frozen tissue sections ³ .



Application References:	1. Kubagawa H, <i>et al.</i> 1999. <i>J. Exp. Med.</i> 189:309. (WB) 2. Nakamura A, <i>et al.</i> 2004. <i>Nat. Immunol.</i> 5:623. (FC) 3. Masuda K, <i>et al.</i> 2005. <i>EMBO J.</i> 24:4052. (IHC)
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Description: Paired-immunoglobulin-like receptor (PIR) is a type I transmembrane protein, containing six Ig-like domains. Two isoforms (PIR-A and PIR-B) have been reported for this molecule. PIR-A/B is expressed on B cells, mast cells, macrophages, granulocytes, eosinophils, and dendritic cells. PIR-A requires association with FcRγ for its cell surface expression and to act as an activating receptor. The ligand for PIR-A is MHC class I. PIR-B is an inhibitory receptor with 3 ITIM motifs on its cytoplasmic tail; when phosphorylated, they recruit the tyrosine phosphatases PTPN6/SHP-1 and PTPN11/SHP-2. MHC class I, Nogo, MAG, and OMgp are the ligands for PIR-B.

Antigen References:	1. Matsushita H, <i>et al.</i> 2011. <i>J. Biol. Chem.</i> 286:25739. 2. Arita K, <i>et al.</i> 2011. <i>J. Immunol.</i> 186:7050.
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3. Takai T, *et al.* 2011. *J. Biomed. Biotechnol.* 2011:275302.
4. Nakamura A,