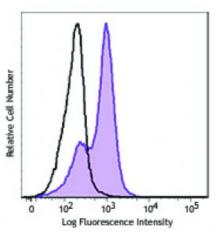
Product Data Sheet

PE/Cy7 anti-mouse Ki-67

Catalog # / Size:	3862125 / 25 μg 3862130 / 100 μg
Clone:	16A8
Isotype:	Rat IgG2a, к
Immunogen:	<i>E. coli</i> expressed partial mouse Ki-67 recombinant protein, 1816-2163 aa.
Reactivity:	Human,Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	Lot-specific



Con A+IL-2 stimulated (3 days) C57BL/6 mouse splenocytes were fixed and permeabilized with 70% ethanol, and then stained with Ki-67 (clone 16A8) PE/Cy7 (filled histogram) or rat IgG2a, κ PE/Cy7 isotype control (open histogram).

Applications:

Applications:	Immunofluorescence
Recommended Usage:	Each lot of this antibody is quality control tested by our Ki-67 staining protocol below. 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:
immunofluorescence staining.

Ki-67 Staining Protocol:

1. Prepare 70% ethanol and chill at -20	°C.
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2. Prepare target cells of interest and wash 2X with PBS by centrifuge at 350xg for 5 minutes.

- 3. Discard supernatant and loosen the cell pellet by vortexing.
- 4. Add 3 ml cold 70% ethanol drop by drop to the cell pellet while vortexing.
- 5. Continue vortexing for 30 seconds and then incubate at -20°C for 1 hour.

6. Wash 3X with BioLegend Cell Staining Buffer and then resuspend the cells at the concentration of 0.5-10 x 10^6 /ml.

7. Mix 100 microL cell suspension with proper fluorochrome-conjugated Ki-67 antibody and incubate at room temperature in the dark for 30 minutes.8. Wash 2X with BioLegend Cell Staining and then resuspend in 0.5 ml cell staining buffer for flow cytometric analysis.

Application	1. Medina-Reyes El, <i>et al.</i> 2015. <i>Environ Res.</i> 136:424. <u>PubMed</u>
References:	2. Guillaumond F, et al. 2015. PNAS. 112:2473. PubMed
	3. Sharma SK, <i>et al.</i> 2015. <i>J Immunol.</i> 194:5529. <u>PubMed</u>
	4. Rodero MP, et al. 2014. J. Invest. Dermatol. 7:1991-7. PubMed

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Description:	The nuclear protein Ki-67 was first identified by the monoclonal antibody Ki-67, which was generated by immunizing mice with nuclei of the L428 Hodgkin lymphoma cell line. Ki-67 protein plays an essential role in ribosomal RNA transcription and cell proliferation. Expression of Ki-67 occurs during G1, S, G2, and M phase, while in G0 phase the Ki-67 protein is not detectable. Ki-67 is strongly expressed in proliferating cells and has been reported as a prognostic marker in various tumors.
	transcription and cell proliferation. Expression of Ki-67 occurs during G1, S, G2, and M phase, while in G0 phase the Ki-67 protein is not detectable. Ki-67 is strongly expressed in proliferating cells and has been reported as a prognostic

Antigen	1. Starborg M, <i>et al.</i> 1996. <i>J. Cell. Sci.</i> 109:143.
References:	2. Byeon IJ, <i>et al.</i> 2005. <i>Nat. Struct. Mol. Biol.</i> 12:987.
	3. Yerushalmi R, <i>et al.</i> 2010. <i>Lancet. Oncol.</i> 11:174.

4. Beltrami AP, e