

Spark PLUS UV395™ anti-mouse Ki-67 Antibody

Catalog# / Size	652433 / 25 µg
Clone	16A8
Regulatory Status	RUO
Other Names	KiA, proliferation-related Ki-67 antigen
Isotype	Rat IgG2a, κ
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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	<i>E. coli</i> expressed partial mouse Ki-67 recombinant protein, 1816-2163 aa.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS UV395™ under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.
Excitation Laser	Ultraviolet Laser (355 nm)
Application References	1. Medina-Reyes EI, <i>et al.</i> 2015. <i>Environ Res.</i> 136:424. PubMed 2. Guillaumond F, <i>et al.</i> 2015. <i>PNAS.</i> 112:2473. PubMed 3. Sharma SK, <i>et al.</i> 2015. <i>J Immunol.</i> 194:5529. PubMed 4. Rodero MP, <i>et al.</i> 2014. <i>J. Invest. Dermatol.</i> 7:1991-7. PubMed
(PubMed link indicates BioLegend citation)	

Antigen Details

Structure	325 kD protein containing a forkhead-associated domain (FHA) and 13 tandem repeats
Distribution	Nucleus and chromosome

Function	Required for cell cycle progression and proliferation
Interaction	Interacts with KIF15; binds to MKI67IP through FHA domain
Biology Area	Cell Biology, Cell Cycle/DNA Replication, Transcription Factors
Molecular Family	Nuclear Markers
Antigen References	1. Starborg M, <i>et al.</i> 1996. <i>J. Cell. Sci.</i> 109:143. 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, <i>et al.</i> 2001. <i>N. Engl. J. Med.</i> 344:1750. 5. Sachsenberg N, <i>et al.</i> 1998. <i>J. Exp. Med.</i> 187:1295. 6. Nagy Z, <i>et al.</i> 1997. <i>Acta. Neuropathol.</i> 93:294.
Gene ID	17345

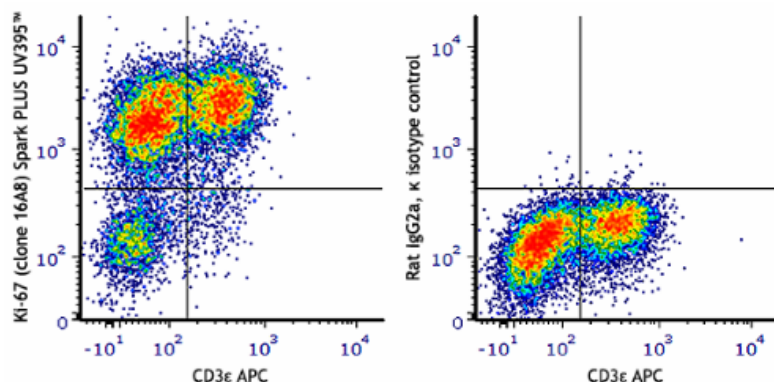
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

APC/Fire™ 750 anti-mouse Ki-67, Alexa Fluor® 700 anti-mouse Ki-67, Alexa Fluor® 488 anti-mouse Ki-67, Pacific Blue™ anti-mouse Ki-67, PerCP/Cyanine5.5 anti-mouse Ki-67, PE/Cyanine7 anti-mouse Ki-67, Purified anti-mouse Ki-67, APC anti-mouse Ki-67, Brilliant Violet 605™ anti-mouse Ki-67, Spark NIR™ 685 anti-mouse Ki-67, Spark PLUS UV395™ anti-mouse Ki-67, PE/Dazzle™ 594 anti-mouse Ki-67, PE anti-mouse Ki-67, Brilliant Violet 421™ anti-mouse Ki-67, Alexa Fluor® 647 anti-mouse Ki-67, FITC anti-mouse Ki-67

Product Data



Con A+IL-2 stimulated (2 days) BALB/c mouse splenocytes were surface stained with anti-mouse CD3ε (clone 145-2C11) APC. Cells were then fixed and permeabilized with 70% ethanol, and intracellularly stained with anti-mouse Ki-67 (clone 16A8) Spark PLUS UV395™ (left) or rat IgG2a, κ Spark PLUS UV395™ isotype control (right).

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8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587