

Datasheet for ABIN2749188

anti-Ki-67 antibody**3** Images**3** Publications[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	Ki-67 (MKI67)
Reactivity:	Human, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Ki-67 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Nuclei of the Hodgkin lymphoma cell line L428
Clone:	Ki-67
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody Ki-67 recognizes Ki-67 antigen, a non-histone nuclear protein expressed exclusively in proliferating cells.
Cross-Reactivity (Details):	Human, Bovine
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	Ki-67 (MKI67)
Alternative Name:	Ki-67 (MKI67 Products)
Background:	Marker of proliferation Ki-67, Ki-67 is a highly protease-sensitive nuclear protein expressed in two isoforms (345 kDa and 395 kDa), both of which are identified by the antibody clone Ki-67. The Ki-67 antigen is essential for cell proliferation and its expression is restricted to the cycling cells. It is detected in G1, S, G2 and M phase, whereas it is absent in cells which are in G0 phase and it is not associated with DNA repair processes. Ki-67 thus represents an important tool for detection of proliferating cells, which is of great importance in tumor diagnostics and is commonly used as a prognostic factor in cancer studies. KIA, MIB, Marker of proliferation Ki67, MKI67
Gene ID:	4288
UniProt:	P46013
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-5 µg/mL. Intracellular staining. Immunocytochemistry: Paraformaldehyde fixation, recommended antibody concentration 1 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

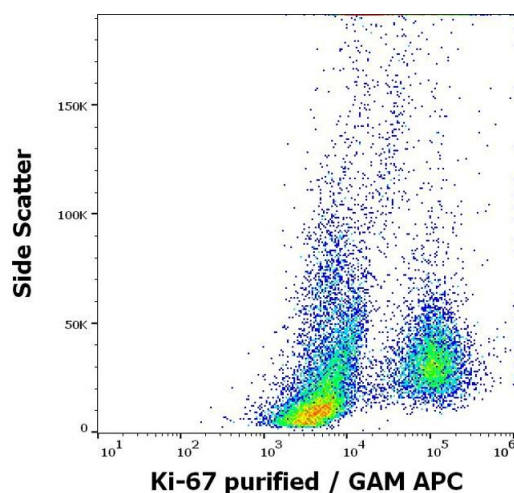
Product cited in:	Schlüter, Duchrow, Wohlenberg, Becker, Key, Flad, Gerdes: "The cell proliferation-associated
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antigen of antibody Ki-67: a very large, ubiquitous nuclear protein with numerous repeated elements, representing a new kind of cell cycle-maintaining proteins." in: **The Journal of cell biology**, Vol. 123, Issue 3, pp. 513-22, (1993) ([PubMed](#)).

Gerdes, Lemke, Baisch, Wacker, Schwab, Stein: "Cell cycle analysis of a cell proliferation-associated human nuclear antigen defined by the monoclonal antibody Ki-67." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 133, Issue 4, pp. 1710-5, (1984) ([PubMed](#)).

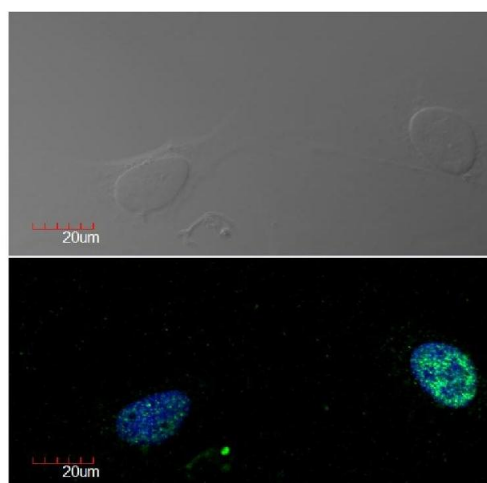
Gerdes, Schwab, Lemke, Stein: "Production of a mouse monoclonal antibody reactive with a human nuclear antigen associated with cell proliferation." in: **International journal of cancer. Journal international du cancer**, Vol. 31, Issue 1, pp. 13-20, (1983) ([PubMed](#)).

Images



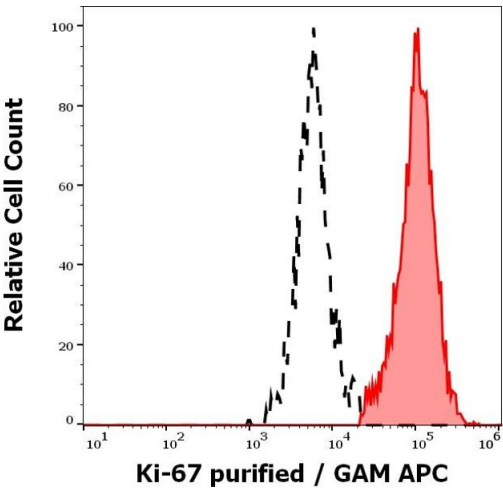
Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of human PHA stimulated peripheral whole blood stained using anti-human Ki-67 (Ki-67) purified antibody (concentration in sample 0.6 µg/mL) GAM APC.



Immunocytochemistry

Image 2. Immunocytochemistry detection of Ki-67 in U2OS cell line (human osteosarcoma) using monoclonal antibody Ki-67 (green). Cell nuclei stained with DAPI (blue).



Flow Cytometry

Image 3. Separation of human Ki-67 positive cells (red-filled) from Ki-67 negative cells (black-dashed) in flow cytometry analysis (intracellular staining) of human PHA stimulated peripheral whole blood stained using anti-human Ki-67 (Ki-67) purified antibody (concentration in sample 0.6 µg/mL) GAM APC.