abcam

Product datasheet

Anti-Ki67 antibody [MKI67/2465] - BSA and Azide free ab237864

4 图像

概述

产品名称	Anti-Ki67抗体[MKI67/2465] - BSA and Azide free
描述	小鼠单克隆抗体[MKI67/2465] to Ki67 - BSA and Azide free
宿主	Mouse
经测试应用	**适用于:** ICC, Protein Array, IHC-P, Flow Cyt
种属反应性	**与反应:** Human
免疫原	Recombinant fragment within Human Ki67 aa 2293-2478. The exact sequence is proprietary. Database link: **P46013**
阳性对照	IHC-P: Human tonsil tissue. ICC: MCF7 cells. Flow cyt: HeLa cells.
常规说明	ab237864 is the carrier-free version of **ab238020**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.

存储溶液	pH: 7.2 Constituent: PBS
无载体	**是**
纯度	Protein A/G purified
纯化说明	Purified from bioreactor concentrate.
克隆	单克隆
克隆编号	MKI67/2465
同种型	IgG2b
轻链类型	kappa

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab237864于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

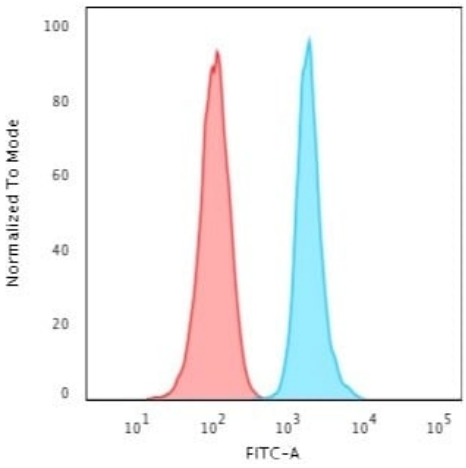
应用	Ab评论	说明
ICC		Use a concentration of 1 - 2 µg/ml.
Protein Array		Use at an assay dependent concentration.
IHC-P		Use a concentration of 1 - 2 µg/ml. Primary incubation for 30 minutes at room temperature.
Flow Cyt		Use 1-2µg for 10^6 cells. Trypsinize (0.25%) cell for 2-4 minutes. Fix with 2-4 % PFA.

靶标

功能	Required to maintain individual mitotic chromosomes dispersed in the cytoplasm following nuclear envelope disassembly (PubMed:27362226). Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the chromosome surface (PubMed:27362226). Prevents chromosomes from collapsing into a single chromatin mass by forming a steric and electrostatic charge barrier: the protein has a high net electrical charge and acts as a surfactant, dispersing chromosomes and enabling independent chromosome motility (PubMed:27362226). Binds DNA, with a preference for supercoiled DNA and AT-rich DNA (PubMed:10878551). Does not contribute to the internal structure of mitotic chromosomes (By similarity). May play a role in chromatin organization (PubMed:24867636). It is however unclear whether it plays a direct role in chromatin organization or whether it is an indirect consequence of its function in maintaining mitotic chromosomes dispersed.
序列相似性	Contains 1 FHA domain. Contains 16 K167R repeats. Contains 1 PP1-binding domain.
发展阶段	Expression occurs preferentially during late G1, S, G2 and M phases of the cell cycle, while in cells in G0 phase the antigen cannot be detected (at protein level) (PubMed:6206131). Present at highest level in G2 phase and during mitosis (at protein level). In interphase, forms fiber-like

	structures in fibrillarin-deficient regions surrounding nucleoli (PubMed:2674163, PubMed:8799815).
翻译后修饰	Phosphorylated. Hyperphosphorylated in mitosis (PubMed:10502411, PubMed:10653604). Hyperphosphorylated form does not bind DNA.
细胞定位	Chromosome. Nucleus. Nucleus, nucleolus. Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the mitotic chromosome surface (PubMed:27362226). Associates with satellite DNA in G1 phase (PubMed:9510506). Binds tightly to chromatin in interphase, chromatin-binding decreases in mitosis when it associates with the surface of the condensed chromosomes (PubMed:15896774, PubMed:22002106). Predominantly localized in the G1 phase in the perinucleolar region, in the later phases it is also detected throughout the nuclear interior, being predominantly localized in the nuclear matrix (PubMed:22002106).

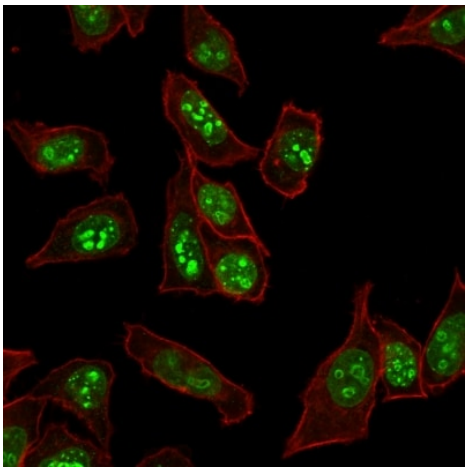
图片



Flow Cytometry - Anti-Ki67 antibody [MKI67/2465] - BSA and Azide free (ab237864)

Flow cytometric analysis of HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling Ki67 with **ab238020** at 2 µg per 10^6 cells (blue) compared to an isotype control (red). A Goat Anti-mouse CF488 secondary antibody was used.

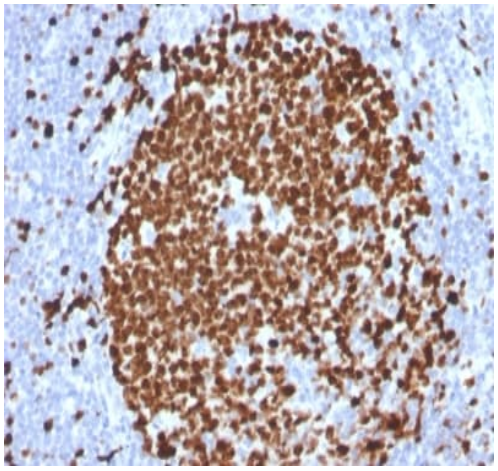
This data was produced with **ab238020**, the same antibody in a different formulation with BSA and Azide.



Immunocytochemistry - Anti-Ki67 antibody [MKI67/2465] - BSA and Azide free (ab237864)

MCF7 (human breast adenocarcinoma cell line) cells stained for Ki67 (green) using **ab238020** at 2 µg/mL in ICC. The membrane is labelled with phalloidin (red).

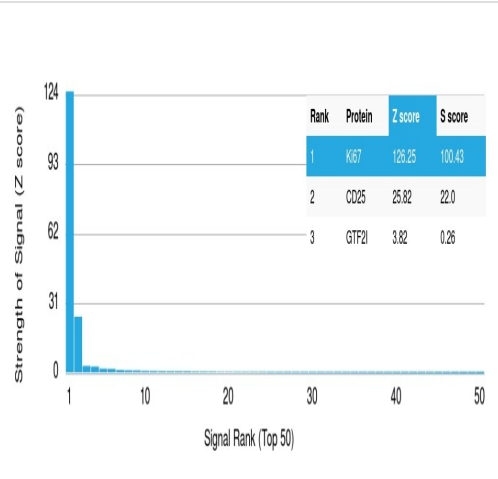
This data was produced with **ab238020**, the same antibody in a different formulation with BSA and Azide.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ki67 antibody [MKI67/2465] - BSA and Azide free (ab237864)

Formalin-fixed, paraffin-embedded human tonsil tissue stained for Ki67 using **ab238020** at 2 µg/ml in immunohistochemical analysis.

This data was produced with **ab238020**, the same antibody in a different formulation with BSA and Azide.



Protein Array - Anti-Ki67 antibody (ab237864)

This data was produced with **ab238020**, the same antibody in a different formulation with BSA and Azide.

ab238020 was tested in protein array against over 19000 different full-length human proteins.

Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target.

A MAb is specific to its intended target if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

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