abcam

Product datasheet

Anti-Mitotic Cells antibody [8B3G] ab8956

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Overview

Product name	Anti-Mitotic Cells antibody [8B3G]
Description	Mouse monoclonal [8B3G] to Mitotic Cells
Host species	Mouse
Specificity	Strongly stains mitotic cells and can therefore be used in flow cytometric analyses of cell suspensions to detect the mitotic index. Together with a quantitative DNA staining procedure (e.g. propidium iodide) this antibody clearly distinguishes these M-phase cells from cell at other stages of the cell cycle. Dynamic information can be obtained by combining BrdU incorporation with antibody staining, which can distinguish and quantitate the four major fractions of the cell cycle. This antibody can be used for flow cytometric analyses and immunocytochemistry, it is not suitable for immunoblotting.
Tested applications	**Suitable for:** Flow Cyt, IHC-Fr
Species reactivity	**Reacts with:** Human, Zebrafish
Immunogen	Tissue, cells or virus corresponding to Human Mitotic Cells. Total cell lysate of the human bladder carcinoma cell line T24.
General notes	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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Clonality	Monoclonal

Clone number	8B3G
Myeloma	Sp2/0-Ag14
Isotype	IgM

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab8956 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

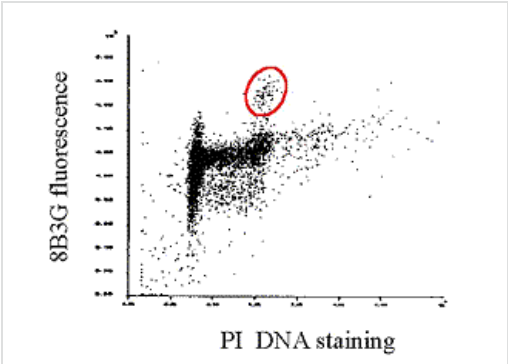
Application	Abreviews	Notes
Flow Cyt		1/50 - 1/100. **ab91545** - Mouse monoclonal IgM, is suitable for use as an isotype control with this antibody.
IHC-Fr		Use at an assay dependent concentration.

Target

Relevance

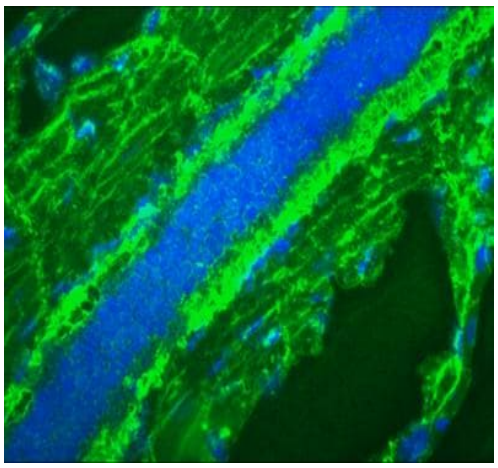
The life cycle of a eukaryotic cell consists of various phases, two of which can easily be identified. Firstly, during mitosis (M-phase), in which the cell divides into two identical daughter cells, chromosome condensation and spindle formation are microscopically visible. Secondly, in S-phase the DNA of a cell is replicated, a process that can be detected using biochemical techniques. In between the M and S phase two gap phases occur: the G1-phase, the gap between mitosis and the start of DNA replication, and G2-phase, the gap between completion of DNA replication and the onset of mitosis. From G1-phase a cell can leave the cell cycle and enter G0, a 'quiescent' phase. Regulation of the cell cycle predominantly occurs at three major control points, which govern the transition from G0 to G1, from G1 to S and from G2 to M-phase.

Images



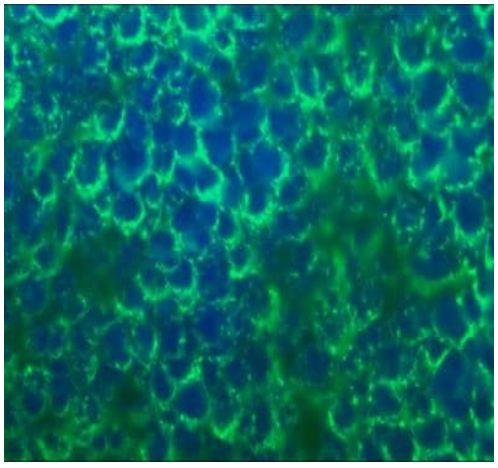
Flow Cytometry - Anti-Mitotic Cells antibody [8B3G] (ab8956)

Dual parameter flow cytometric analysis of human colon cancer HT29 cells stained with monoclonal antibody 8B3G and propidium iodide (PI). The mitotic cell fraction is encircled.



Immunohistochemistry (Frozen sections) - Anti-Mitotic Cells antibody [8B3G] (ab8956)

ab8956 staining a membrane-associated compound in proliferating (all) cells in tissue sections of 9 day old Zebrafish embryos by Immunohistochemistry (Frozen sections). Samples ware frozen sections fixed in Acetone:Methanol 1:1. ab8956 used at 1:50 dilution and incubated for 45 minutes at room temperature.



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