



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Mouse anti Mitotic cells

Catalogue number: **MUB1200P**

Clone	8B3G
Isotype	IgM
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Human Zebrafish
Application	Flow cytometry Immunocytochemistry

## Distributors

For Purchasing Information, please contact your local distributor

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### Background

The life cycle of a eukaryotic cell consists of various phases, two of which can morphologically and biochemically 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, such as the BrdU incorporation assay. 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.

### Source

8B3G is a Mouse monoclonal IgM antibody derived by fusion of SP2/0-Ag14 Mouse myeloma cells with spleen cells from a Mouse immunized with a total cell lysate of the Human bladder carcinoma cell line T24.

### Product

Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

### Applications

8B3G can be used for flow cytometric analyses and immunocytochemistry. 8B3G is not suitable for immunoblotting. Optimal antibody dilution should be determined by titration;

recommended range is 1:50 – 1:100 for flow cytometry, and for immunocytochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent.

#### **Specificity**

8B3G 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) 8B3G clearly distinguishes these M-phase cells from cell at other stages of the cell cycle (see figure). Dynamic information can be obtained by combining BrdU incorporation with 8B3G staining, which can distinguish and quantitate the four major fractions of the cell cycle.

#### **Storage**

Store at 4°C, or in small aliquots at -20°C.

#### **Caution**

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.