


### Anti-Mitotic proteins antibody [MPM-2] ab14581

★★★★★ [1 Abreviews](#) [12 References](#) [6 图像](#)

#### 概述

产品名称	Anti-Mitotic蛋白抗体[MPM-2]
描述	小鼠单克隆抗体[MPM-2] to Mitotic蛋白
宿主	Mouse
特异性	Recognizes a phosphorylated epitope (S/T)P found in phosphoproteins such as MAP2, HSP70, cdc25 and DNA topoisomerase IIa, most of which are phosphorylated at the onset of mitosis. The number of phosphoproteins recognized by MPM-2 varies from species to species and with the cell type. The clone number has been updated from (0.T.181) to (MPM-2) both clone numbers name the same antibody clone.
经测试应用	适用于: IP, ICC/IF, ICC, ELISA, IHC-P, WB, Flow Cyt (Intra)
种属反应性	与反应: Human 预测可用于: a wide range of other species 
免疫原	Tissue, cells or virus corresponding to Human Mitotic proteins.
阳性对照	WB: Colcemid treated HeLa cell lysate. ICC/IF: Saos-2 cells. IHC-P: human normal skin tissue Flow Cyt (Intra): HeLa cells.
常规说明	<p>For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.</p> <p>This product was changed from ascites to tissue culture supernatant on 11-June-19. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>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.</p> <p>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&amp;As</p>

#### 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 or -

	80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.035% Sodium azide Constituents: 1.37% Tris glycine, 0.61% Sodium chloride, 30% Glycerol
纯度	Protein G purified
纯化说明	Purified from TCS.
克隆	单克隆
克隆编号	MPM-2
同种型	IgG1

应用

The Abpromise guarantee      **Abpromise™**承诺保证使用ab14581于以下的经测试应用

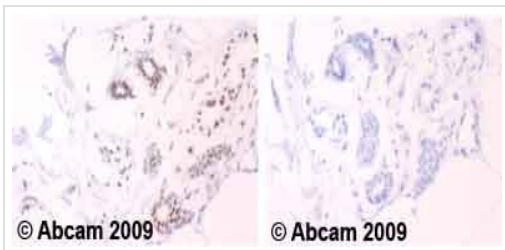
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IP		Use at an assay dependent concentration.
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
ICC		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration. This antibody was used in a non-radioactive, dissociation-enhanced time resolved fluoroimmunoassa. Active enzymes were used to phosphorylate substrate peptides. The phosphorylated peptides were detected using MPM2 in conjunction with a europium (Eu3+) labeled secondary antibody. The phosphorylated peptides detected include: S1000-50 Serine
IHC-P		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 92 kDa.
Flow Cyt (Intra)		Use at an assay dependent concentration.

靶标

细胞定位	The phosphoproteins have been found in the cytoplasm of mitotic cells and near centrosomes, kinetochores, and midbodies of the microtubule organizing centers.
------	--

图片



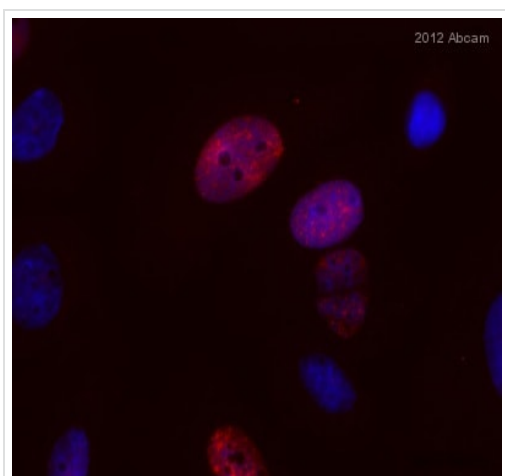
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Mitotic proteins antibody [MPM-2] (ab14581)

Ab14581 staining human normal skin. Staining is localised to the nucleus.

Left panel: with primary antibody at 2 ug/ml. Right panel: isotype control.

Sections were stained using an automated system DAKO Autostainer Plus , at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 antigen retrieval buffer EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H<sub>2</sub>O<sub>2</sub> in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.

This image was generated using the ascites version of the product.

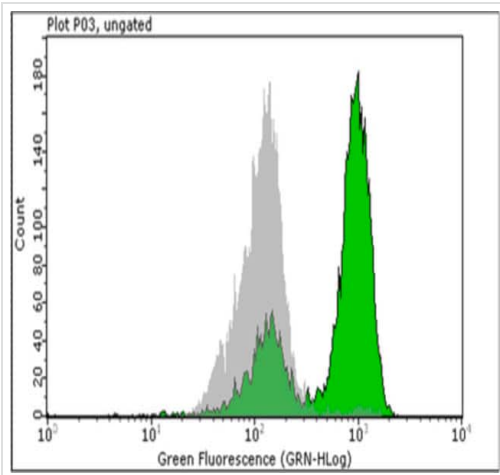


Immunocytochemistry - Anti-Mitotic proteins antibody [MPM-2] (ab14581)

This image is courtesy of an anonymous Abreview

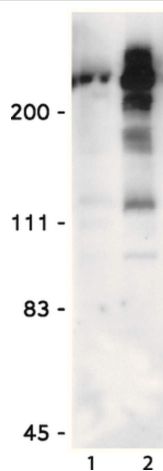
ab14581 staining Mitotic proteins - Mitosis Marker in Human Saos-2 cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.25% Triton in PBS and blocked with 1% BSA for 1 hour at room temperature. Samples were incubated with primary antibody (1/500) for 1 hour. An Alexa Fluor® 594-conjugated Goat anti-mouse IgG polyclonal (1/250) was used as the secondary antibody.

This image was generated using the ascites version of the product.



Flow Cytometry (Intracellular) - Anti-Mitotic proteins antibody [MPM-2] (ab14581)

Flow Cytometry analysis using anti-phospho-Ser/Thr-Pro, MPM-2 (ab14581). HeLa cells were treated with colcemid (green), or untreated (grey).



Western blot - Anti-Mitotic proteins antibody [MPM-2] (ab14581)

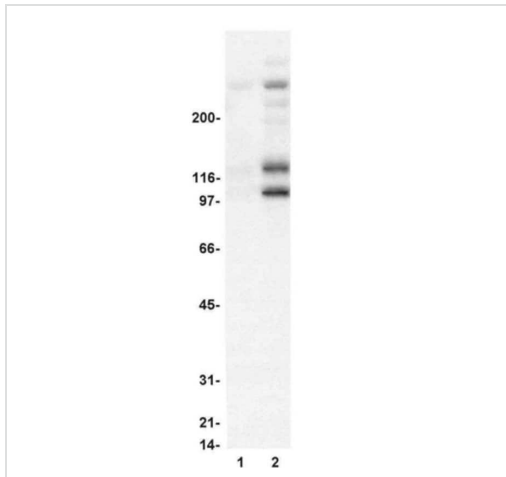
**All lanes** : Anti-Mitotic proteins antibody [MPM-2] (ab14581) at 2  $\mu$ g

**Lane 1** : Non treated HeLa cells

**Lane 2** : Colcemid-treated HeLa cells

Lysates/proteins at 20  $\mu$ g per lane.

**Predicted band size:** 92 kDa



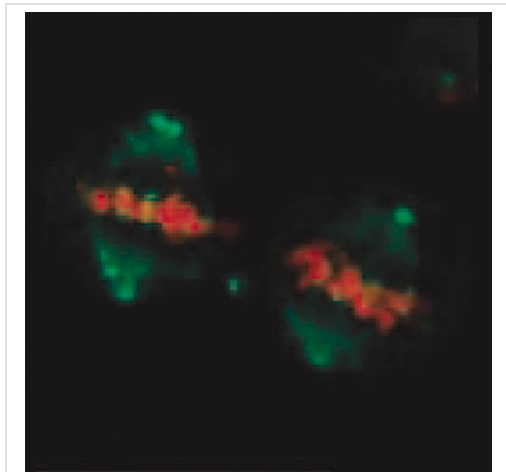
Western blot - Anti-Mitotic proteins antibody [MPM-2] (ab14581)

**All lanes :** Anti-Mitotic proteins antibody [MPM-2] (ab14581) at 2  $\mu$ g

**Lane 1 :** Non-treated HeLa

**Lane 2 :** Colcemid-treated HeLa

**Predicted band size:** 92 kDa



Immunocytochemistry - Anti-Mitotic proteins antibody [MPM-2] (ab14581)

ab14581 (green) labeling phospho-proteins in metaphase cells. The spindle, centrosomes and centromeric regions are stained. DNA is counterstained with propidium iodide (red).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

#### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery

- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

#### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors