

Product datasheet

Anti-MAD1 antibody [9B10] ab5783

★★★★☆ 2 Abreviews 2 References 2 图像

概述

产品名称	Anti-MAD1抗体[9B10]
描述	小鼠单克隆抗体[9B10] to MAD1
宿主	Mouse
经测试应用	适用于: IP, ICC/IF, Flow Cyt 不适用于: WB
种属反应性	与反应: Human
免疫原	Recombinant full length MAD1 protein (Human)

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	Preservative: 0.1% Sodium Azide Constituents: PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	9B10
同种型	IgG2b

应用

Our [Abpromise guarantee](#) covers the use of **ab5783** in the following tested applications.

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

应用	Ab评论	说明
IP		Use a concentration of 5 µg/ml.
ICC/IF	★★★★☆	1/500 - 1/1000.

应用	Ab评论	说明
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Flow Cyt

Use 0.1µg for 10⁶ cells.

[ab170192](#) - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

应用说明

Is unsuitable for WB.

靶标

功能

Component of the spindle-assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate. May recruit MAD2L1 to unattached kinetochores. Has a role in the correct positioning of the septum. Required for anchoring MAD2L1 to the nuclear periphery. Binds to the TERT promoter and represses telomerase expression, possibly by interfering with MYC binding.

组织特异性

Expressed weakly at G0/G1 and highly at late S and G2/M phase.

疾病相关

Defects in MAD1L1 are involved in the development and/or progression of various types of cancer.

序列相似性

Belongs to the MAD1 family.

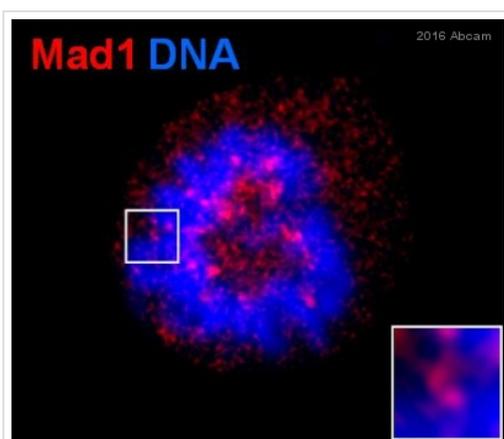
翻译后修饰

Phosphorylated; by BUB1. Become hyperphosphorylated in late S through M phases or after mitotic spindle damage.

细胞定位

Nucleus. Chromosome > centromere > kinetochore. Cytoplasm > cytoskeleton > microtubule organizing center > centrosome. Cytoplasm > cytoskeleton > spindle. From the beginning to the end of mitosis, it is seen to move from a diffusely nuclear distribution to the centrosome, to the spindle midzone and finally to the midbody. Colocalizes with NEK2 at the kinetochore.

图片



ab5783 staining MAD1 in a human colon carcinoma cell by ICC/IF

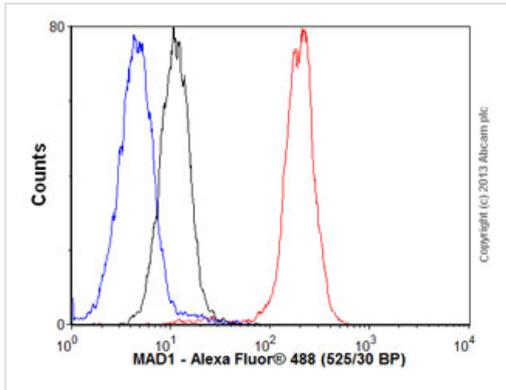
(Immunocytochemistry/immunofluorescence).

Cells were fixed with paraformaldehyde and permeabilized with 0.5% Triton X-100.

Samples were incubated with primary antibody (1/100 in 1% PBS BSA) for 1 hour at 37°C. A goat anti-mouse IgG polyclonal was used as the secondary antibody at a dilution of 1/100.

Immunocytochemistry/ Immunofluorescence - Anti-MAD1 antibody [9B10] (ab5783)

This image is courtesy of an Abreview by Eleni Petsalaki.



Flow Cytometry - Anti-MAD1 antibody [9B10]
(ab5783)

Overlay histogram showing HeLa cells stained with ab5783 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab5783, 0.1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H+L) (ab150113) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (ab91366, 1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

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