abcam

Product datasheet

# Anti-MAD1L1/MAD1 antibody [9B10] ab5783

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## Overview

| | |
|---|---|
| **Product name** | Anti-MAD1L1/MAD1 antibody [9B10] |
| **Description** | Mouse monoclonal [9B10] to MAD1L1/MAD1 |
| **Host species** | Mouse |
| **Tested applications** | **Suitable for:** Flow Cyt<br>**Unsuitable for:** WB |
| **Species reactivity** | **Reacts with:** Human |
| **Immunogen** | Recombinant full length protein corresponding to Human MAD1L1/MAD1.<br>Database link: **Q9Y6D9, Q13586** |
| **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.<br>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: 0.1% Sodium azide<br>Constituent: PBS |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |
| **Clone number** | 9B10 |
| **Isotype** | IgG2b |

## Applications

**The Abpromise guarantee** 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.

| Application | Abreviews | Notes |
|---|---|---|
| **Flow Cyt** | | Use 0.1µg for $10^6$ cells.<br>**ab170192** - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody. |

**Application notes** Is unsuitable for WB.

## Target

**Function** 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.

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

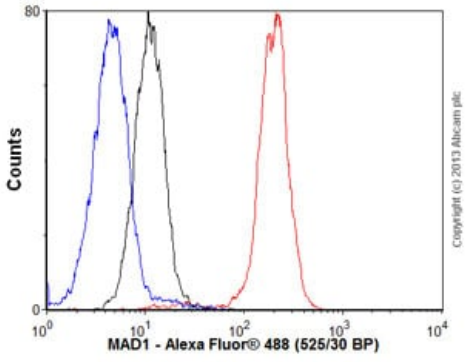
**Involvement in disease** Defects in MAD1L1 are involved in the development and/or progression of various types of cancer.

**Sequence similarities** Belongs to the MAD1 family.

**Post-translational modifications** Phosphorylated; by BUB1. Become hyperphosphorylated in late S through M phases or after mitotic spindle damage.

**Cellular localization** 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.

## Images




Flow Cytometry - Anti-MAD1L1/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/1x$10^6$ 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/1x$10^6$ 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.

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

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