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Product datasheet

Anti-Mad2L1 antibody [OTI4D2] ab114036

1 Abreviews 2 Images

Overview

Product name	Anti-Mad2L1 antibody [OTI4D2]
Description	Mouse monoclonal [OTI4D2] to Mad2L1
Host species	Mouse
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Human, African green monkey **Predicted to work with:** Mouse, Rat
Immunogen	Recombinant full length protein corresponding to Human Mad2L1 aa 1 to the C-terminus. Produced in HEK-293T cells (NP_002349). Database link: **Q13257** Run BLAST with Run BLAST with
Positive control	WB: HEK-293T cell lysate transfected with or pCMV6-ENTRY Mad2L1 cDNA. ICC/IF: COS-7 cells transiently transfected by pCMV6-ENTRY Mad2L1.
General notes	Clone OTI4D2 (formerly 4D2). 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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol, 1% BSA
Purity	Affinity purified
Purification notes	Purified from cell culture supernatant by affinity chromatography.

Clonality	Monoclonal
Clone number	OTI4D2
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab114036 in the following tested applications.

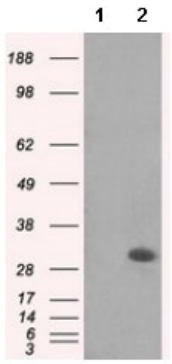
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 24 kDa.
ICC/IF	★☆☆☆☆ (1)	1/100.

Target

Function	Component of the spindle-assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate. Required for the execution of the mitotic checkpoint which monitors the process of kinetochore-spindle attachment and inhibits the activity of the anaphase promoting complex by sequestering CDC20 until all chromosomes are aligned at the metaphase plate.
Sequence similarities	Belongs to the MAD2 family. Contains 1 HORMA domain.
Domain	The protein has two highly different native conformations, an inactive open conformation that cannot bind CDC20 and that predominates in cytosolic monomers, and an active closed conformation. The protein in the closed conformation preferentially dimerizes with another molecule in the open conformation, but can also form a dimer with a molecule in the closed conformation. Formation of a heterotetrameric core complex containing two molecules of MAD1L1 and of MAD2L1 in the closed conformation promotes binding of another molecule of MAD2L1 in the open conformation and the conversion of the open to the closed form, and thereby promotes interaction with CDC20.
Post-translational modifications	Phosphorylated on multiple serine residues. The level of phosphorylation varies during the cell cycle and is highest during mitosis. Phosphorylation abolishes interaction with MAD1L1 and reduces interaction with CDC20.
Cellular localization	Nucleus. Chromosome > centromere > kinetochore. Cytoplasm. Recruited by MAD1L1 to unattached kinetochores (Probable). Recruited to the nuclear pore complex by TPR during interphase. Recruited to kinetochores in late prometaphase after BUB1, CENPF, BUB1B and CENPE. Kinetochore association requires the presence of NEK2. Kinetochore association is repressed by UBD.

Images



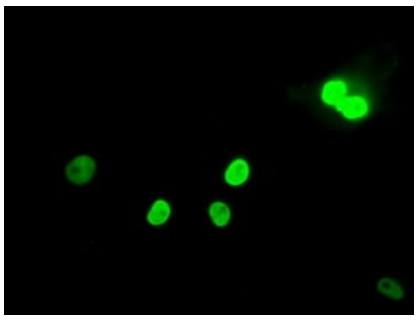
Western blot - Anti-Mad2L1 antibody [OTI4D2] (ab114036)

All lanes : Anti-Mad2L1 antibody [OTI4D2] (ab114036) at 1/1000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate transfected with the pCMV6-ENTRY control cDNA
Lane 2 : HEK-293T cell lysate transfected with the pCMV6-ENTRY Mad2L1 cDNA

Lysates/proteins at 5 µg per lane.

Predicted band size: 24 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Mad2L1 antibody [OTI4D2] (ab114036)

COS-7 (african green monkey kidney fibroblast-like cell line) cells transiently transfected by pCMV6-ENTRY Mad2L1 stained for Mad2L1 (green) using ab114036 at 1/100 dilution in ICC/IF.

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