abcam

Product datasheet

Recombinant Human Mad2L1 protein ab113604

1 图像

描述

产品名称	重组人Mad2L1蛋白
纯度	> 95 % SDS-PAGE. ab113604 was purified using conventional chromatography techniques.
表达系统	Escherichia coli
Accession	Q13257
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	**MGSSHHHHHHSSGLVPRGSH**MALQLSREQGITLRGSAEIV AEFFSFGINS ILYQRGIYPSETFTRVQKYGLTLLVTTDLELIKYLNNVVEQL KDWLYKCS VQKLVVVISNIESGEVLERWQFDIECDKTAKDDSAPREKSQK AIQDEIRS VIRQITATVTFLPLLEVSCSFDLLIYTDKDLVVPEKWEESGP QFITNSEE VRLRSFTTTIHKVNSMVAYKIPVND
预测分子量	26 kDa including tags
氨基酸	1 to 205
标签	His tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab113604** in the following tested applications.

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

应用	SDS-PAGE Mass Spectrometry
质谱法	MALDI-TOF
形式	Liquid

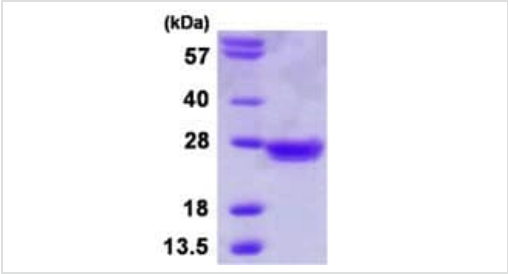
制备和贮存

稳定性和存储	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 8.00 Constituents: 0.02% DTT, 0.32% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

常规信息

功能	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.
序列相似性	Belongs to the MAD2 family. Contains 1 HORMA domain.
结构域	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.
翻译后修饰	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.
细胞定位	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.

图片



SDS-PAGE - Recombinant Human Mad2L1 protein (ab113604)

15% SDS-PAGE showing ab113604 (3 µg) at approximately 25.7 kDa.

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