

Product datasheet

Recombinant Human Borealin/CDCA8 protein ab107144

1 References 1 图像

概述

产品名称 重组人Borealin/CDCA8蛋白
 蛋白长度 Protein fragment

描述

性质 Recombinant
 来源 Escherichia coli

氨基酸序列

Accession [Q53HL2](#)

种属 Human

序列 MGSSHHHHHSSGLVPRGSHMRKLASFLKDFDREVEIRIKQIESDRQNLL
 KEVDNLYNIEILRLPKALREMNWLDYFALGGNKQALEEAATADLDITEIN
 KLTAEAIQTPLKSAKTRKVIQVDEMIVEEEEEENERKNLQTARVKRCPP
 SKKRTQSIQGKGGKRSSRANTVTPAVGRLEVSMVKPTPGLTPRFDSRVF
 KTPGLRTPAAGERIYNIISGNGSPLADSKEIFLTPVGGGESLRLASDLQ
 RHSIAQLDPEALGNIKKLSNRLAQICSSIRTHK

分子量 32 kDa including tags
 氨基酸 19 to 280
 标签 His tag N-Terminus

技术指标

Our [Abpromise guarantee](#) covers the use of **ab107144** in the following tested applications.

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

应用 Mass Spectrometry
 SDS-PAGE
 质谱法 MALDI-TOF
 纯度 > 90 % SDS-PAGE.
 Purified by using conventional chromatography techniques.
 形式 Liquid

制备和贮存

稳定性和存储

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.

Preservative: None

Constituents: 50% Glycerol, 0.2M Sodium chloride, 20mM Tris HCl, 1mM EDTA, 1mM DTT, pH 8.0

常规信息

功能

Component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. In the complex, it may be required to direct the CPC to centromeric DNA. Major effector of the TTK kinase in the control of attachment-error-correction and chromosome alignment.

序列相似性

Belongs to the borealin family.

发展阶段

Cell-cycle regulated. Increases during G2/M phase and then reduces after exit from M phase.

结构域

The C-terminal region (aa 207-280) represents the dimerization motif.

翻译后修饰

Phosphorylated by TTK, essentially at Thr-88, Thr94, Thr-169 and Thr-230.

Sumoylated by UBE2I and RANBP2. Desumoylated by SENP3 through the removal of SUMO2 and SUMO3.

细胞定位

Nucleus > nucleolus. Cytoplasm. Cytoplasm > cytoskeleton > spindle. Chromosome > centromere. Localizes on chromosome arms and inner centromeres from prophase through metaphase and then transferring to the spindle midzone and midbody from anaphase through cytokinesis. Colocalizes with SENP3 in the nucleolus in interphase cells.

图片



ab107144 at 3 µg analysed by 15% SDS PAGE.

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