


Anti-SMC3 (phospho S1083) antibody ab83970

画像数 2

製品の概要

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| 製品名 | Anti-SMC3 (phospho S1083) antibody |
| 製品の詳細 | Rabbit polyclonal to SMC3 (phospho S1083) |
| 由来種 | Rabbit |
| 特異性 | Recognises a region surrounding residue 1083 of human SMC3, when Serine 1083 is phosphorylated, using the numbering given in SwissProt entry Q9UQE7 (GeneID 9126). |
| アプリケーション | 適用あり: IHC-P |
| 種交差性 | 交差種: Mouse, Human 交差が予測される動物種: Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Dog, Turkey, Pig, Chimpanzee, Rhesus monkey, Gorilla, Orangutan, Platypus  |
| 免疫原 | Synthetic peptide within Human SMC3 (phospho S1083). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please <u>contact</u> our Scientific Support team to discuss your requirements. Database link: Q9UQE7 |
| ポジティブ・コントロール | human colon adenocarcinoma and mouse squamous cell carcinoma. |
| 特記事項 | <p>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.</p> <p>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</p> |

製品の特性

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| 製品の状態 | Liquid |
| 保存方法 | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| バッファー | pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline |
| 精製度 | Immunogen affinity purified |

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| 特記事項(精製) | Antibody was affinity purified using an epitope specific to Phospho SMC3 (S1083) immobilized on a solid support. |
| ポリ/モノ | ポリクローナル |
| アイソタイプ | IgG |

アプリケーション

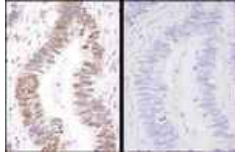
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab83970の使用に適用されます**
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

| アプリケーション | Abreviews | 特記事項 |
|----------|-----------|--|
| IHC-P | | 1/100 - 1/500. Antigen retrieval is not essential but may optimise staining. |

ターゲット情報

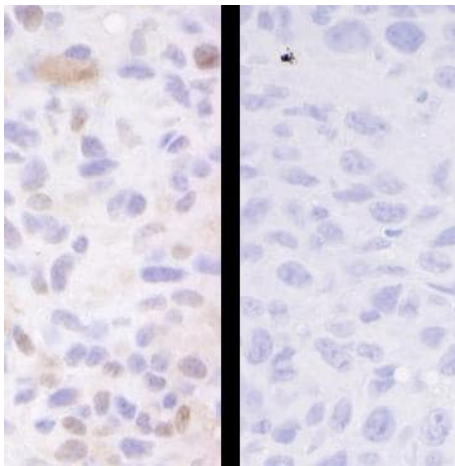
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| 機能 | Central component of cohesin, a complex required for chromosome cohesion during the cell cycle. The cohesin complex may form a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. Cohesion is coupled to DNA replication and is involved in DNA repair. The cohesin complex plays also an important role in spindle pole assembly during mitosis and in chromosomes movement. |
| 関連疾患 | Defects in SMC3 are the cause of Cornelia de Lange syndrome type 3 (CDLS3) [MIM:610759]. CDLS is a dominantly inherited multisystem developmental disorder characterized by growth and cognitive retardation, abnormalities of the upper limbs, gastroesophageal dysfunction, cardiac, ophthalmologic and genitourinary anomalies, hirsutism, and characteristic facial features. CDSL3 is a mild form with absence of major structural anomalies typically associated with CDLS. The phenotype in some instances approaches that of apparently non-syndromic mental retardation. |
| 配列類似性 | Belongs to the SMC family. SMC3 subfamily. |
| ドメイン | The flexible hinge domain, which separates the large intramolecular coiled coil regions, allows the heterotypic interaction with the corresponding domain of SMC1A or SMC1B, forming a V-shaped heterodimer. The two heads of the heterodimer are then connected by different ends of the cleavable RAD21 protein, forming a ring structure. |
| 翻訳後修飾 | Phosphorylated upon DNA damage, probably by ATM or ATR. Acetylation at Lys-105 and Lys-106 by ESCO1 is important for genome stability and S phase sister chromatid cohesion. Regulated by DSCC1, it is required for processive DNA synthesis, coupling sister chromatid cohesion establishment during S phase to DNA replication. |
| 細胞内局在 | Nucleus. Chromosome. Chromosome > centromere. Associates with chromatin. Before prophase it is scattered along chromosome arms. During prophase, most of cohesin complexes dissociate from chromatin probably because of phosphorylation by PLK, except at centromeres, where cohesin complexes remain. At anaphase, the RAD21 subunit of the cohesin complex is cleaved, leading to the dissociation of the complex from chromosomes, allowing chromosome separation. |

画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SMC3 (phospho S1083) antibody (ab83970)

ab83970 at a 1/250 dilution, staining SMC3 (phospho 1083) in formaldehyde fixed, paraffin embedded human colon adenocarcinoma sections by immunohistochemistry. Left: Mock phosphatase treated section. Right: calf intestinal phosphatase-treated section. Detection by DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SMC3 (phospho S1083) antibody (ab83970)

ab83970 at a 1/250 dilution, staining SMC3 (phospho 1083) in formaldehyde fixed, paraffin embedded mouse squamous cell carcinoma sections by immunohistochemistry. Left: Mock phosphatase treated section. Right: calf intestinal phosphatase-treated section. Detection by DAB staining.

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